I.O.S.

CTD DATA
FROM THE MADEIRA ABYSSAL PLAIN
CHARLES DARWIN CRUISE 1/85

BY

P.M. SAUNDERS

REPORT NO. 217
1985

OCEAN DISPOSAL OF HIGH LEVEL RADIOACTIVE WASTE
A RESEARCH REPORT PREPARED FOR THE DEPARTMENT
OF THE ENVIRONMENT

NATURAL ENVIRONMENT RESEARCH COUNCIL

INSTITUTE OF
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SCIENCES

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When citing this document in a bibliography the reference should be given as follows:-

SAUNDERS, P.M. 1985 CTD data from the Madeira Abyssal Plain: *Charles Darwin* Cruise 1/85. *Institute of Oceanographic Sciences, Report*, No. 217, 78pp.

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WORMLEY

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I.O.S. Report No. 217

1985

RADIOACTIVE WASTE MANAGEMENT

Research Programme 1985/86

DoE Report No. DoE/RW/85.181

Contract Title: Studies of large and local scale advection and dispersion relevant to the Great Meteor East Location.

DoE Reference: PECD7/9/216

Report Title: CTD data from the Madeira Abyssal Plain. C. DARWIN Cruise 1/85

Author: P.M. SAUNDERS

Date of submission to DoE 28-10-85

Period covered by report:

Abstract (100-200 words as desired)

This report presents lists and graphs of CTD data taken aboard RRS Charles Darwin during February 1985. The majority of the lowerings were made in support of two experiments; the deployment of deep SOFAR floats near 32°N 24°W and of moorings near 31 30°N 25°W (GME site). Others were made on a basin-wide section along 32°N. All CTD data is compared with reversing thermometer observations and with measurements of salinity and dissolved oxygen derived from samples.

Keywords: 126,299 - Ocean circulation/dispersal, DoE sponsored research.

This work has been commissioned by the Department of the Environment as part of its radioactive waste management research programme. The results will be used in the formulation of Government policy, but at this stage they do not necessarily represent Government policy.

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METHOD OF DATA COLLECTION

The data described in this report was gathered aboard the first scientific cruise of the RRS Charles Darwin during February 1985. The ports for the cruise were Falmouth (UK) and Funchal (Madeira). Measurements were made with a NBIS CTD equipped with a Beckman dissolved oxygen sensor and a 1 m path transmissometer from Sea Tech., Inc. Earlier reports in this Series (Saunders and Manning, 1984) furnish details of the equipment and procedures. Here we comment only on changes necessitated by the change of ship.

CTD stations were worked from the midships winch using the new CTD/multisampler frame, see Figure 1 of Saunders (1985a) and all, save station 001 to within 10 m of the bottom. A novel feature of the frame is a junction box which allows the winch cable to be disconnected at will and connected to another instrument, e.g. the hydrophone used for listening to SOFAR floats. The frame and instruments weigh approximately 200 kg in air but the height of the Darwin's A frame, its unobstructed lift and considerable outboard reach ensured ease of handling for the weather encountered on the cruise. The constant temperature laboratory and wet laboratory were both accessible and well-laid out spaces: the salinity samples yielded some of the best determinations yet made by IOS. Other comments about the ship and equipment are found in the Cruise Report (Gould, 1985).

Stations 2-5 were made on the ridge associated with the East Azores Fracture zone, near 37°N and west of Discovery Gap. The remainder were made near 32°N (see Figure 1) in support of 9 SOFAR floats released near station 9 and of 3 current meter mooring at the position of stations 6, 7, 8 at GME. Stations 11-14 (like 2-5) were worked searching for a deep swift current found at the margins in this basin. The final stations extended the measurements to the east side of the Madeira abyssal plain. Table 1 gives details of the measurements and Figure 1 shows the location of the latter stations.

RECONCILIATION OF CTD DATA WITH MULTISAMPLER DATA

(a) Pressure

The deck pressure offset was stable and a value of 11 db was assumed for all stations. Differences between the pressure measured by the CTD and by pairs of reversing thermometers are shown in Table 2. The results are similar to previous experience (Saunders and Manning, 1984) and confirm the stability of the CTD sensor.

(b) Temperature

Laboratory calibrations made in January and June 1985 confirm the stability of the platinum resistance sensor and associated electronics. Since the end of 1983 when this sensor was installed the calibration has drifted only about .003±.001 (Saunders, 1985a). A comparison is given in Table 2 between CTD temperatures and reversing thermometers, separating the deep and the shallow measurements.

(c) Salinity

The sample measurements on this cruise were slightly fresher by about .002 than the canonical θ-s relation, $S = 34.698 + 0.098 \times \theta$. (θ is the potential temperature). This we attribute to a slightly saline batch of standard sea water (P91), see the discussion of this problem in Saunders (1985b). The cell factor required to bring the CTD salinities into agreement with the above equation for each station is listed in Table 1. Had we chosen a constant cell factor (0.999923) for the entire cruise the deep θ-s would have appeared to change by .020 PSU between stations 3 and 11, at least an order of magnitude greater than derived from the sample data. Thus the CTD conductivity sensor was somewhat less stable than usual (compare Saunders & Manning, 1984).

(d) Oxygen

A very small change was made to the procedure described in earlier reports. The current lag was determined from the expression

$$\text{Lag(seconds)} = 70 \exp - 0.14 \times T(\text{ambient})^{\circ}C$$

which was found to give better behaviour especially near the bottom of the surface mixed layer. A correction was made to each station to bring the dissolved oxygen in the deep water below 3500 db close to 5.67 ml/l, (see Saunders 1985b). The comparison between CTD and sample oxygen estimates is found in Table 2 and represents an improvement on our previous efforts.

COMPUTER PROCESSING OF CTD DATA

There were many teething problems with the brand new computer system aboard the RRS Charles Darwin and CTD data was not logged on it during the cruise. Data from the NBIS deck unit was converted into ASCII characters via an IOS-built interface, then formatted into blocks of size 1960 to which timing and header information was added. The data was then written to a dedicated Digidata tape deck at the sampling frequency (16 Hz). This data was input ashore into the GEXEC file handling package on the Honeywell 66/DPS-300 at IOS Bidston. The computation path is described in general terms in Table 3 and a description of the jobs listed in the appendix.

Standard plots and lists occupy the main body of the report. Derived quantities have been computed from algorithms published in UNESCO Technical Paper on Marine Science No. 44 (Fofonoff & Millard, 1983).

Because of our interest in the deepest parts of the water column we have included plots of potential temperature, salinity and potential transmittance below 3500 db. Transmittance is often related to the suspended particulate concentration, see Spinrad et al., (1983). The expression found by these and other authors suggest that in the resuspended sediment which produces a transmittance decrease of 0.2% (or attenuance increase of .003 m^{-1}) the bottom concentration is about 2 ppb. This figure agrees closely with estimates by Biscaye and Eittreim (1977) in the same area. The (excess) concentration falls off

approximately linearly with height vanishing about 500 m above the bottom where the clearest water is found. The vertically integrated concentration or suspended particle load is 0.5 x 2μg/dm^3 x 500 m ≈ 0.5g/m^2. Such a load, totally deposited, yields a layer of thickness 0.5μm, somewhat less than the annual deposition rate of about 2.5μm/year (Searle et al., 1985).

ACKNOWLEDGEMENTS

I am grateful to Messrs. J. Moorey and J. Smithers who assisted with the work at sea and Mr. J. Holmes who did much of the processing ashore. Dr. W. J. Gould was the chief scientist for the cruise and actively assisted in the measurement programme.

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TABLE 1

CHARLES DARWIN 1/85

CTD Station List

Station	Day	Down	Lat(N)	Long(W)	Water Depth(m)	Salra
1	46	1722	46 13	10 49	4801	0.999929
2	51	1020	37 38	18 53	5280	1.000127
3	51	2052	37 28	18 50	4525	1.000220
4	52	0231	37 13	18 49	4485	1.000106
5	52	1514	36 59	18 53	4852	1.000056
6	54	1918	31 30	25 10	5056	0.999887
7	55	0020	31 31	25 03	5438	0.999960
8	55	2239	31 29	24 45	5440	1.000032
9	56	0752	31 59	24 00	5438	0.999965
10	57	0611	31 29	24 21	5444	0.999871
11	58	1518	31 33	26 07	5199	0.999715
12	58	2212	31 47	26 37	5393	0.999863
13	59	1143	31 56	27 00	5202	0.999894
14	59	1635	32 00	27 11	4211	0.999874
15	60	0812	32 59	25 16	5375	0.999677
16	60	2220	33 00	23 29	5424	0.999822
17	61	1129	31 41	22 35	5216	0.999848
18	62	0011	32 15	21 14	5051	0.999842
19	62	1024	32 20	20 15	4724	0.999854
					mean	0.999923

TABLE 2

Fit of CTD Data to Rosette Sample Values

Variable	Range	Difference between CTD and Rosette Measurements		
		Mean difference	R.M.S.	Number
Pressure, db	0 - 2000 db	-1	2	7
	2000 - 5400 db	-2	6	28
Temperature, °C	5 - 23°C	+ .003	.005	10
	2 - 5°C	+ .006	.006	35
Salinity	0 - 2000 db	- .003	.010	10
	2000 - 5400 db	+ .001	.002	43
Oxygen, ml/l	0 - 2000 db	+ .11	.10	10
	2000 - 5400 db	- .02	.06	30

The depth of the 5°C isotherm is approximately 1800 db.

TABLE 3

DATA PROCESSING PATH (See Appendix for further details)

Stage	
CTDIN	Input raw 16 Hz data and sketch them.
CTDA	Provisional edit of noisy variables.
CTDB	Delete bad data and calibrate p.
CTDC	Decimate data and correct for temperature lag.
CTDD	Sort on pressure and average by 2 db.
CTDE	Calibrate T, C, Transmittance and compute S, θ.
CTDF	Compute potential transmittance and salinity correction.
CTDG	Lag oxygen current and correct salinity
CTDH	Calculate dissolved oxygen and identify suspect data.
CTDJ	Remove bad values and identify suspect data.
	(above step is repeated as necessary)
CTDK	Fill data gaps at start of lowering.
CTDL	Correct summary file.
CTDPLT	Plot T, S, DO versus P (0-2000 db).
BOTPLT	Plot θ, S, POTRAN versus P (below 3500 db).
GF3	Archive 2 db values to tape in GF3 format.
CTDM	Construct a station list.

APPENDIX - STAGES OF DATA PROCESSING

CTDIN. INPUT RAW 16HZ DATA AND SKETCH THEM.

```
EXEC PDIGIN
0
NAMES,PRES,TEMP,COND,TRAN,OXYC,OXYT
FILE,1,WPRDA001BW,5500,5788
TIME,850215,172200,.0625
POSI,46,13.0,-10,48.8,4801,,
PLATFORM,NEWDEEP,DARWIN,1/85,P.M.SAUNDERS
REMA,INPUT FROM DIGIDATA AT 16/SEC,TIME=TIME AT BOTTOM
SUBS
$$ SELECT(PMS/RUN/TEMP:S)
FIND WTAPE91232
MAKE WCTDWK02
EXEC PSKTCH
0
GROUP,500
VARS,-
FIND WCTDWK02
```

CTDA. PROVISIONAL EDIT OF NOISY VARIABLES.

```
EXEC PEDITA
0000001
LIMIT,TEMP,4000,40000
LIMIT,COND,30000,50000
LIMIT,TRAN,2300,4500
LIMIT,OXYC,10,1000
FIND WCTDWK02
MAKE WCTDWK02
EXEC PUSRIO
0
VARS,-
CYCS,,
OVARS,-
FCON,10.,100.,100.,10.,10.,0.
SUBS
$$ SELECT (RTP/SOURCE/PMDIAN:S)
FIND WCTDWK02
MAKE WCTDWK02
EXEC PSKTCH
0
GROUP,500
VARS,-
FIND WCTDWK02
*
```

CTDB. DELETE BAD DATA AND CALIBRATE P.

```
EXEC PCOPYA
1
VARS,1,2,3,4,5
COPY,1,7119
FIND WCTDWK02
MAKE PHYSFILE,,,5,90000
EXEC PINTRP
0
LINEAR,1,-,5
FIND PHYSFILE
MAKE PHYSFILE
EXEC PCALIB
0
LINEAR,PRES,PRES,.1,-11.,DECIBARS,-999.
COPY,TEMP,TEMP
COPY,COND,COND
COPY,TRAN,TRAN
COPY,OXYC,OXYC
COPY,TEMP,DELT
FIND PHYSFILE
MAKE WCTDWK02
```

CTDC. DECIMATE DATA AND CORRECT FOR TEMPERATURE LAG.

```
EXEC PDECIM
0
CYCS,,
DECI,9
MEAN,4
VARS,1,-,5
USER,-5,0.,0.,0.,0.,0.4
VARS,6
COMM   SPECIAL VERSION OF PDECIM
SUBS
$$ SELECT(PMS/DECIM:S)
FIND WCTDWK02
MAKE PHYSFILE,,,6,10000
EXEC PLSTDC
00001
EVERY,50
CYCS,,
VARS,-
FIND PHYSFILE
EXEC PARITH
0
CYCS,,
COPY,PRES
ADD,TEMP,DELT,TEMP
COPY,COND,TRAN,OXYC
FIND PHYSFILE
MAKE WPRDA001BW
EXEC PLSTDC
00001
EVERY,50
CYCS,,
VARS,-
FIND WPRDA001BW
*
```

CTDD. SORT ON PRESSURE AND AVERAGE BY 2 DECIBAR INTERVALS.

```
EXEC PGFILE
0
FIND WPRDA001BW
MAKE TEMPFILE,,,5,10050
EXEC GSORT3
00000000000000002000PRES
FIND TEMPFILE
MAKE WORKFILE,,,5,10050
EXEC GPFILE
0
FIND WORKFILE
MAKE PHYSFILE,,,5,10050
EXEC PAVRGE
0
SCAN,1,0.0,2.0
VARS,-
FIND PHYSFILE
MAKE WPRDA001BW
EXEC PLSTDC
00001
EVERY,10
CYCS,,
VARS,-
FIND WPRDA001BW
```

CTDE. CALIBRATE T C TRANSMIT AND COMPUTE S THETA.

```
EXEC PCALIB
0
COPY,PRES,PRES
LINEAR,TEMP,TEMP,.00049953,.026,DEGC,-9.99
LINEAR,COND,COND,.0010008,0.,MMHO,-9.99
LINEAR,TRAN,TRAN,.019926,0.,PERCENT,-99.9
COPY,OXYC,OXYC
FIND WPRDA001BW
MAKE PHYSFILE,,,5,3000
EXEC PEOS83
0
CYCS,,
COPY
VARS,PRES,TEMP
SAL78
VARS,P,1,T,2,G,3
PTMP,0.0
VARS,P,1,T,2,G,3
COPY
VARS,TRAN,OXYC
FIND PHYSFILE
MAKE WPRDA001BW
EXEC PLSTDC
00001
EVERY,10
CYCS,,
VARS,-
FIND WPRDA001BW
*
```

CTDF. CALCULATE POT-TRAN AND SALRA.

```
EXEC PUSRIO
0
VARS,PRES,TEMP,SAL78,POTEMP,TRAN
CYCS,,
COMM POTTRAN ACCORDING TO APPROXIMATE METHOD  -  PMS MARCH 83
COMM FCON(1) IS AIR CAL AND FCON(2) IS OFFSET - BOTH VDC
FCON,4.04,-0.002
OVARS,PRES,TEMP,SAL78,POTEMP
NVARS,POTRAN,PERCENT,-99.9
OVARS,OXYC
SUBS
$$ SELECT(PMS/TRANSMIT)
FIND WPRDA001BW
MAKE WPRDA001BW
```

CTDG. LAG OXYGEN CURRENT AND CORRECT SALINITY.

```
HALT
EXEC PUSRIO
0
VARS,OXYC,TEMP
CYCS,,
COMM ***** INPUT AND OUTPUT FILES MUST BE THE SAME *********
COMM FCON(1) IS LAG OF CURRENT IN SECS AT TEMP 0 DEG C
COMM FCON(2) IS FACTOR IN LAG=FCON(1)*EXP-FCON(2)*TEMP
COMM FCON(3) IS DATA INTERVAL IN SECS
FCON,70.,0.14,2.0
OVARS,PRES,TEMP,SAL78,POTEMP,POTRAN,OXYC
SUBS
$$ SELECT(PMS/LAG2)
FIND WPRDA001BW
MAKE WPRDA001BW
EXEC PCALIB
0
COPY,PRES,PRES
COPY,TEMP,TEMP
LINEAR,SAL78,SAL78,0.999929,0.0
LINEAR,POTRAN,POTRAN,1.0,0.0
COPY,OXYC,OXYC
COPY,TEMP,OXYT
FIND WPRDA001BW
MAKE PHYSFILE,,,6,3000
EXEC PINTRP
0
LINEAR,1,-,4
COPY,5
LINEAR,6
FIND PHYSFILE
MAKE WPRDA001BW
*
```

CTDH. CALCULATE DO AND IDENTIFY SUSPECT DATA.

```
EXEC POXYGN
0
CYCS,,
COPY
VARS,-
OXYG,.00375,0.,1.0,0.,-0.037,0.000166,1.0
VARS,PRES,TEMP,SAL78,OXYC,OXYT
FIND WPRDA001BW
MAKE PHYSFILE,,,7,3000
EXEC PINTRP
0
COPY,1,-,6
LINEAR,7
FIND PHYSFILE
MAKE WPRDA001BW
EXEC PCHECK
01
CYCS,,
ERRA,0.001,8.0
VARS,-
FIND WPRDA001BW
MAKE WEDITPR
```

CTDJ. REMOVE BAD VALUES AND IDENTIFY SUSPECT DATA

```
EXEC PRIGHT
01
ENTRIES,4,9,11,12
FIND WPRDA001BW
FIND WEDITPR
MAKE PHYSFILE,,,7,3000
EXEC PINTRP
0
LINEAR,-
FIND PHYSFILE
MAKE WPRDA001BW
EXEC PCHECK
01
CYCS,,
ERRA,0.001,8.0
VARS,-
FIND WPRDA001BW
MAKE WEDITPR
```

(REPEAT ABOVE STEP AS REQUIRED)

```
*
```

CTDK. FILL DATA GAPS AT START OF LOWERING

```
EXEC PCOPYA
0
VARS,-
INSERT,1
COPY,1,
FIND WPRDA019BW
MAKE PHYSFILE,,,7,2800
EXEC PEDITA
0000001
NUCYC,1,1.0,17.501,36.594,63.681,499.204,17.501,5.256
FIND PHYSFILE
MAKE WPRDA019BW
EXEC PLSTDC
00001
CYCS,1,10
VARS,-
FIND WPRDA019BW
```

CTDL. CORRECT SUMMARY FILE.

```
EXEC PDDSUM
000001
POSI,46,13.0,-10,48.8
SUMM,COMMENT2,SHIP
SUMM,SHIPCRUS,RRS C.DARWIN
SUMM,COMMENT3,CR1985/1
SUMM,LONGDEGS,CTD
SUMM,CALCONS1,4801
FIND WPRDA001BW
MAKE WPRDA001BW
```

GF3. ARCHIVE CTD DATA IN GF3 FORMAT

```
MESS JOB USES IOS33 and TAPE 92155
EXEC PGFARC
0
SUBS
$$ SELECT(SPU/GFARCH/PGFARC:S)
$$ SELECT(SPU/GFARCH/BLKDAT:S)
FIND WPRDA001BW
MAKE CTD185
*
```

CTDPLT. PLOT T,S,DO VERSUS P (0-2000DB).

```
DARWIN 1/85 STN 018  32 15N 21 14W
MESS PMS USING IOS 33
EXEC PCALIB,,WB
0
COPY,PRES,PRES
COPY,TEMP,TEMP
RANGE,SAL78,SAL78,34.9,36.2
COPY,OXYGEN,OXYGEN
FIND WPRDA018BW
MAKE PHYSFILE,,,4,2900
EXEC PLOTXY,WGST
1
CYCS,1,1000
PLOT,250,305,130,200,,,2
XAXIS,2,20,10,2,2,2
YAXIS,2,20,10,2,2,2
YVAR,PRES,0.,2000.,4,200.
XVAR,TEMP,0.,32.5,1,5.0,1
XVAR,SAL78,34.9,36.2,1,.2
XVAR,OXYGEN,3.,9.5,1,1.0,1
SUBS
$$ SELECT (PMS/GSPOOL:S)
FIND PHYSFILE
```

BOTPLT. PLOT THETA,S,POTRAN VERSUS P (>3500DB)

```
EXEC PEOS83,,WB
1
CYCS,1751,
COPY
VARS,PRES,SAL78,POTRAN
PTMP,0.0
VARS,P,1,T,2,S,3
FIND WPRDA018BW
MAKE PHYSFILE,,,4,1250
EXEC PLOTXY,WGST,WB
1
CYCS,,
PLOT,250,350,150,250
XAXIS,2,30,15,3,3,3
YAXIS,2,50,10,3,3,3
YVAR,PRES,3500.,6000.,4,500.
XVAR,POTEMP,1.9,2.4,0,0.1
XVAR,SAL78,34.880,34.930,0,0.01
XVAR,POTRAN,67.5,70.0,0,0.5
SUBS
$$ SELECT (PMS/GSPOOL:S)
FIND PHYSFILE

*
```

CTDM. STATION LIST.

```
EXEC PEOS83
0
CYCS,,
COPY
VARS,-
PTMP,0.0
VARS,P,1,T,2,S,3
SIGP,0.
VARS,P,1,T,2,S,3
SIGP,4000.
VARS,P,1,T,2,S,3
DYNHT,0.0
VARS,P,1,T,2,S,3
SNDV
VARS,P,1,T,2,S,3
DEPTH
VARS,P,1
FIND WPRDA001BW
MAKE PHYSFILE,,,11,2800
EXEC PFETCH
000001
CYCS,,
VARS,-
SEARCH,PRES
LEVS,10,20,30,50,75,100,125,150,200,250,300,400,500,600,700,800,900
LEVS,1000,1200,1400,1600,1800,2000,2200,2400,2600,2800,3000
LEVS,3200,3400,3600,3800,4000,4200,4400,4500,4600,4700,4800,4900
LEVS,5000,5100,5200,5300,5400,5500,5600
FIND PHYSFILE
MAKE WCTDWK01
EXEC PEOS83
0
CYCS,,
COPY
VARS,-
SVAN
VARS,P,1,T,2,S,3
BVFR
VARS,P,1,T,2,S,3
FIND WCTDWK01
MAKE WPRDA001SL
EXEC PLSTDC
00000000000101
(1H1//33X,'C.DARWIN 1/85 STATION 001'//
'    P-DB    T-DEGC   SAL-PSU  POTRAN  DO-ML/L  POTEMP   SIGO    SIG4000'
'   DYNHT-M SNDV-M/S DEPTH-M  SVANOM  BVFR-CY/HR'///)
(1X,F8.0,2F9.3,2F8.2,1X,3F9.4,F9.3,F9.1,F7.0,E12.4,F9.3)


CYCS,,
VARS,1,-,13
FIND WPRDA001SL
*
```

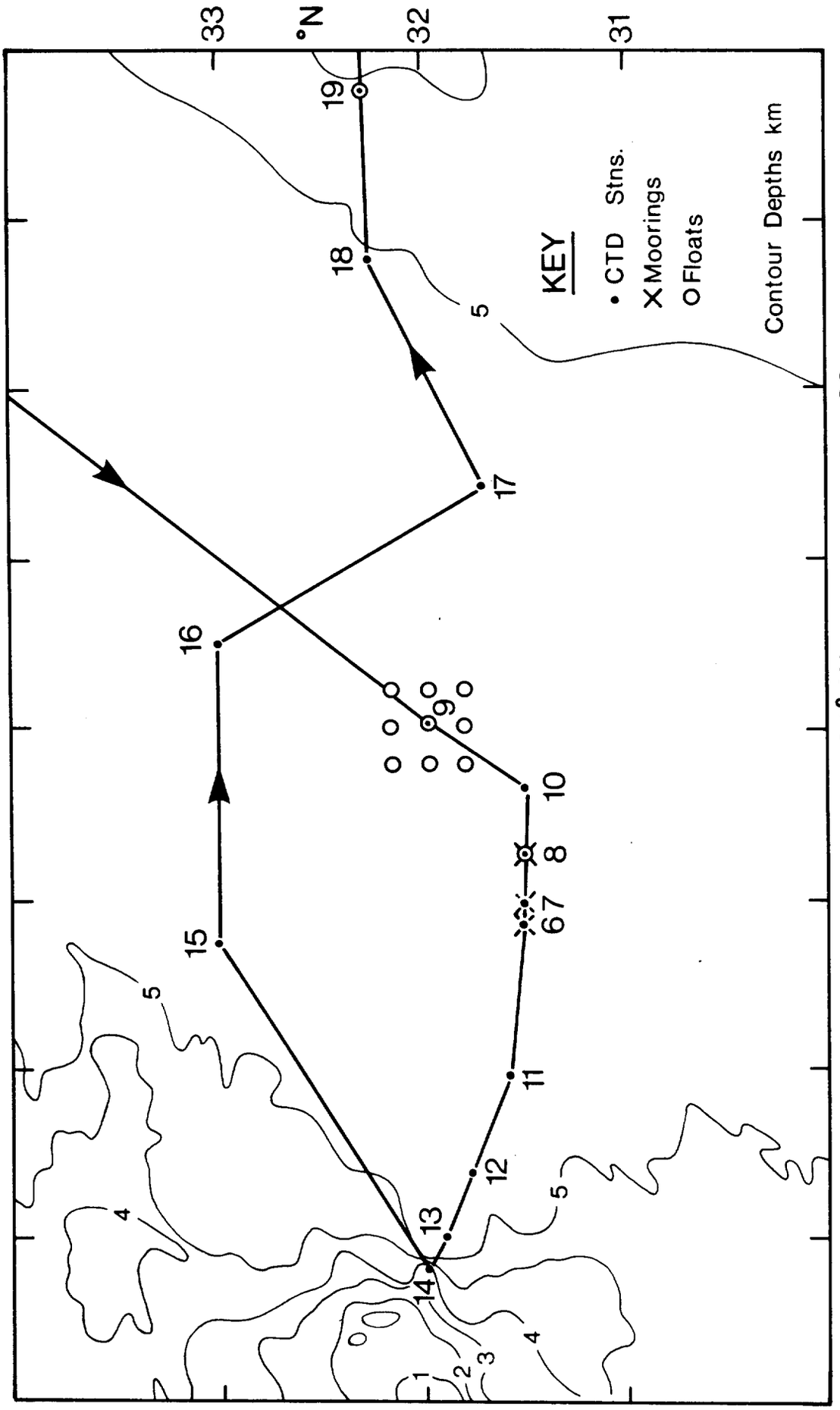
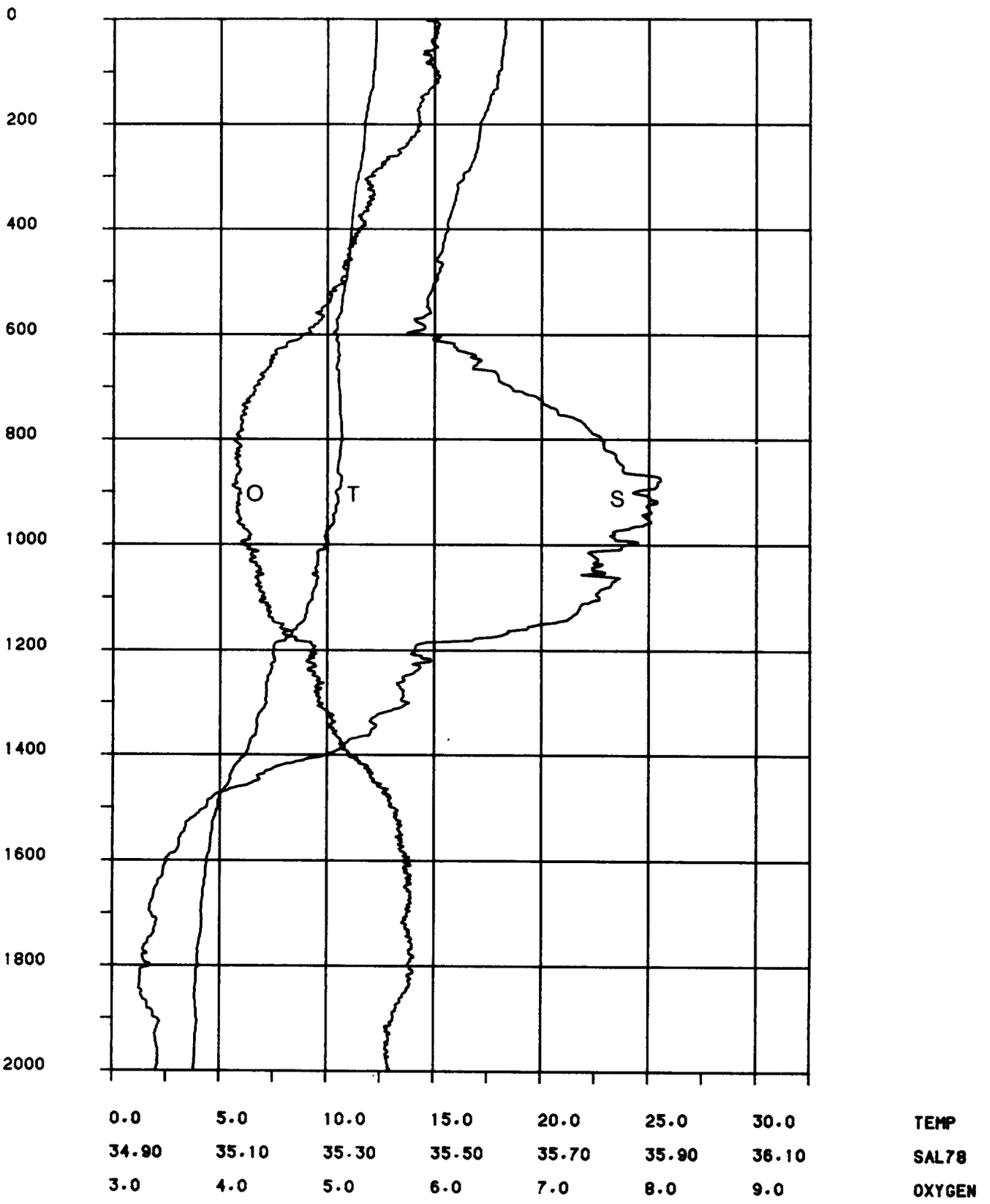
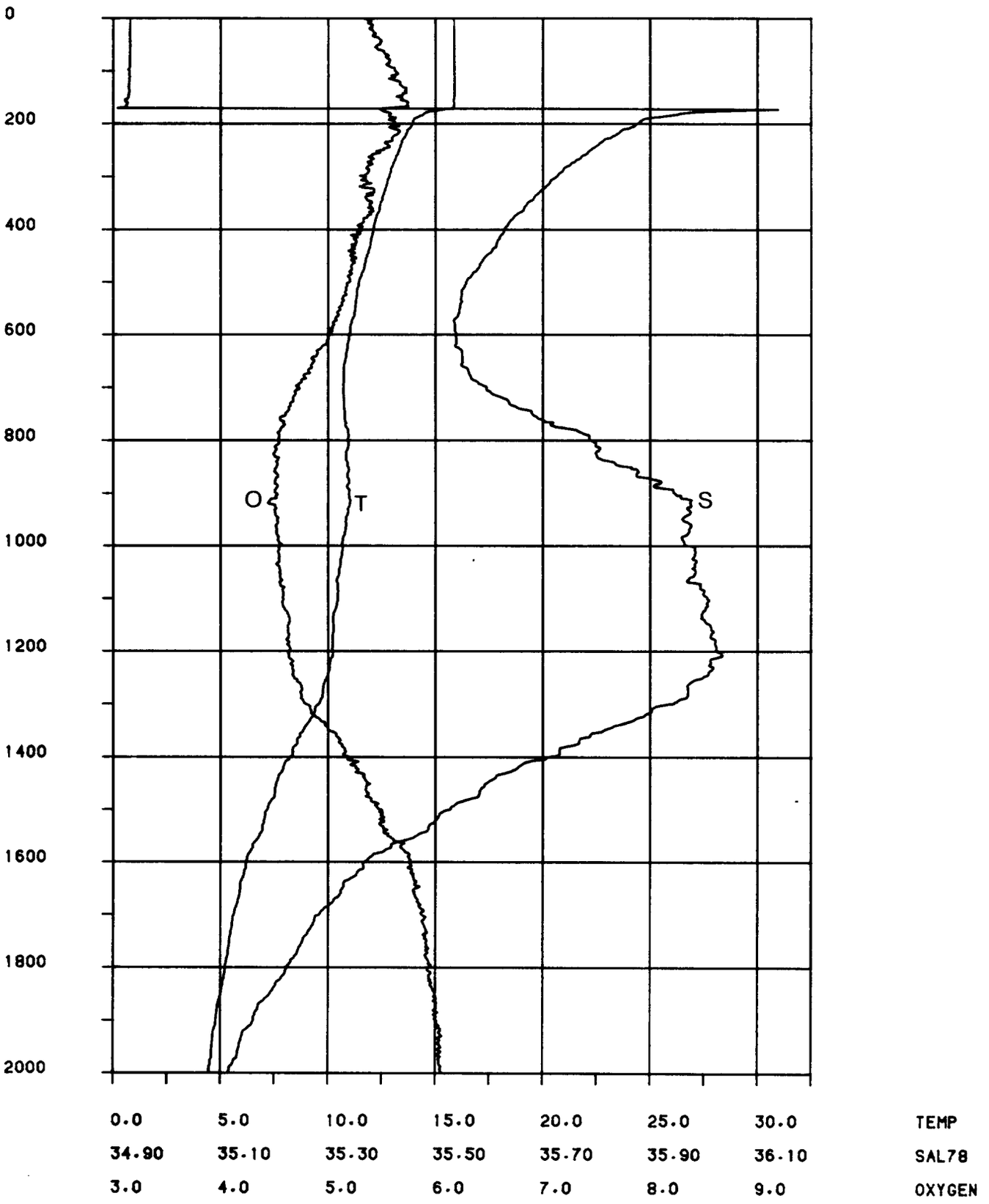


Figure 1. Location of CTD stations, Sofar float release points and Current meter moorings on Charles Darwin 1/85.

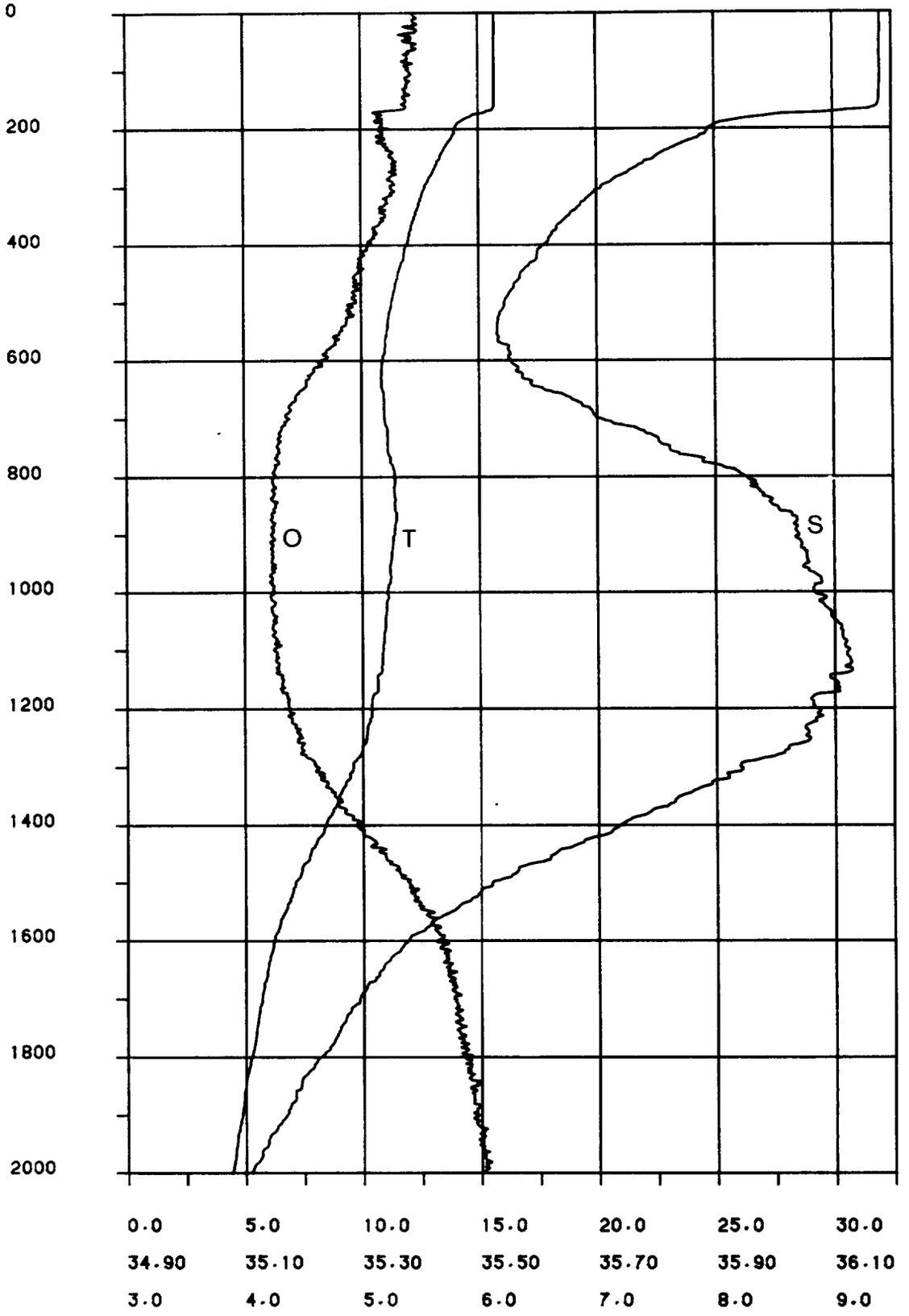


DARWIN 1/85 STN 001 46 13N 10 49W

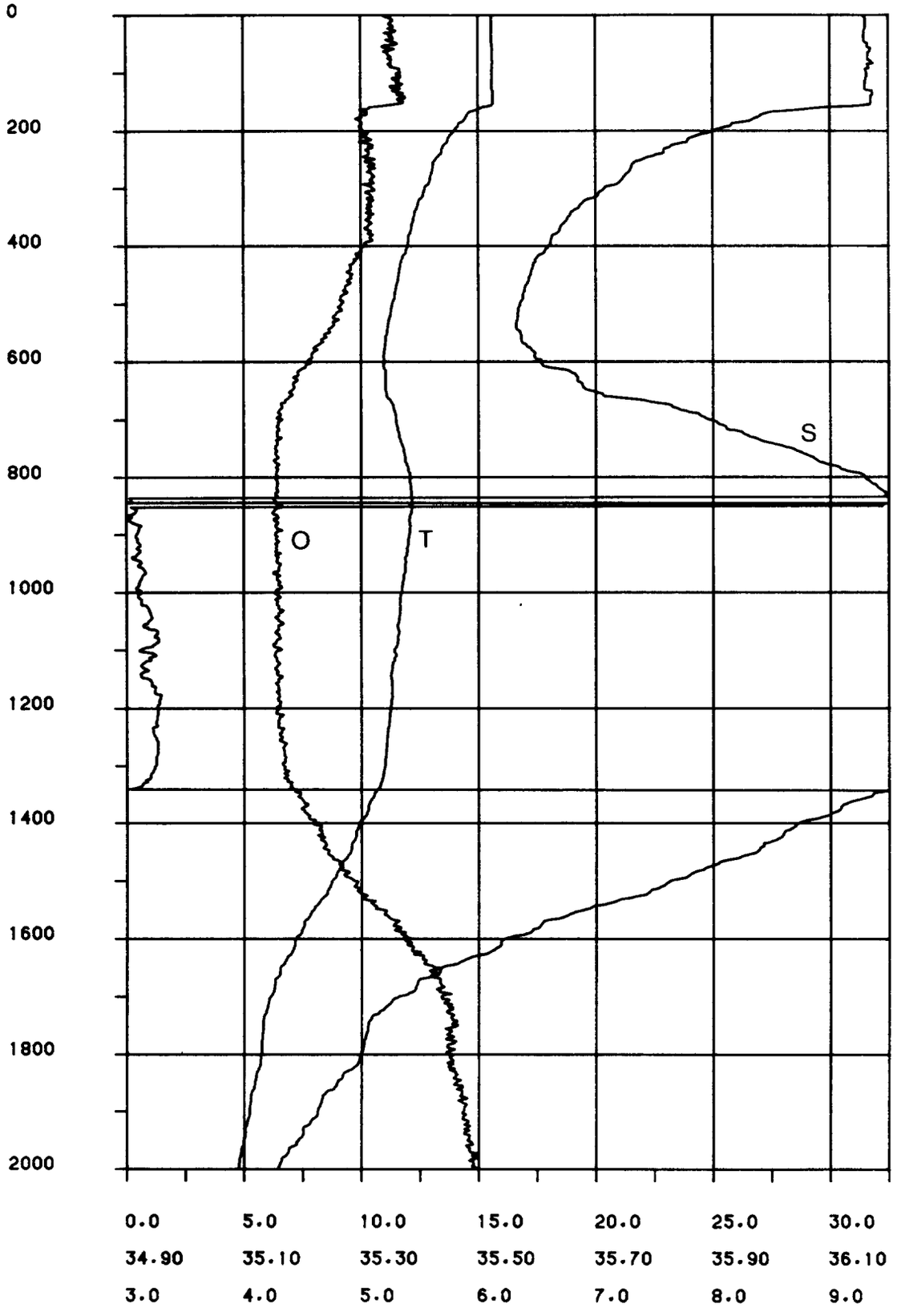
10/04/85



DARWIN 1/85 STN 002 37 38N 18 53W 10/03/85



DARWIN 1/85 STN 003 37 28N 18 50W 09/30/85



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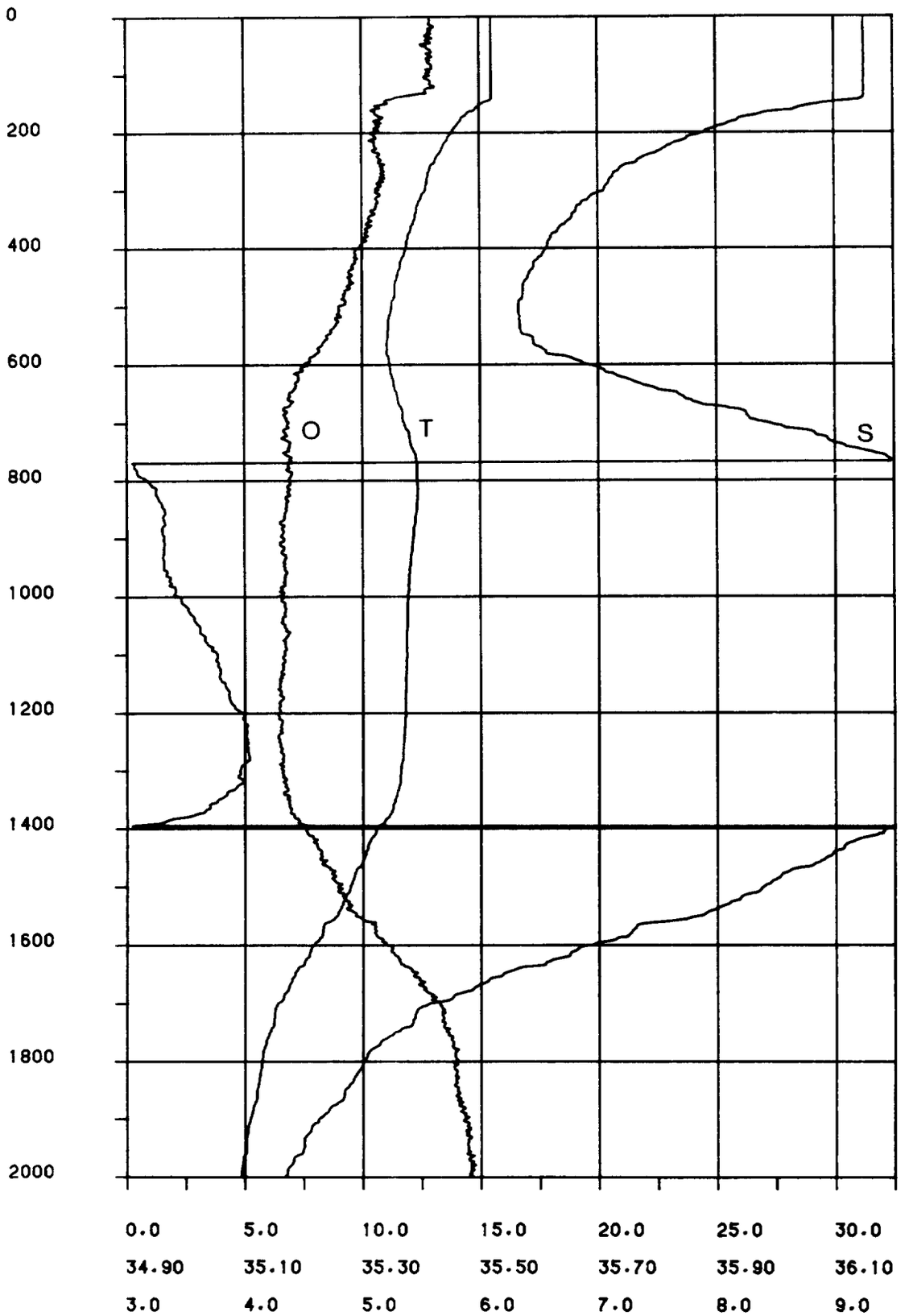

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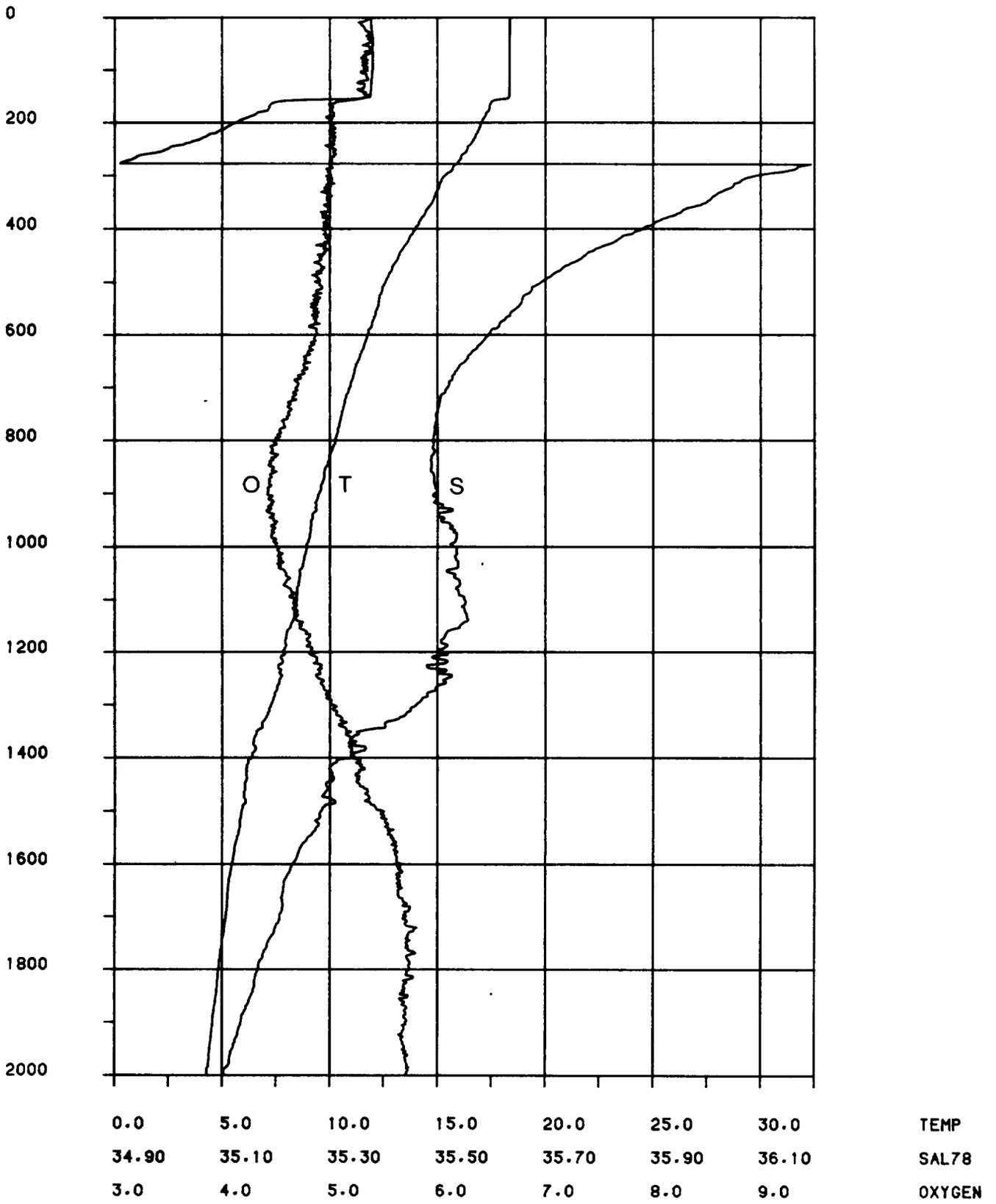
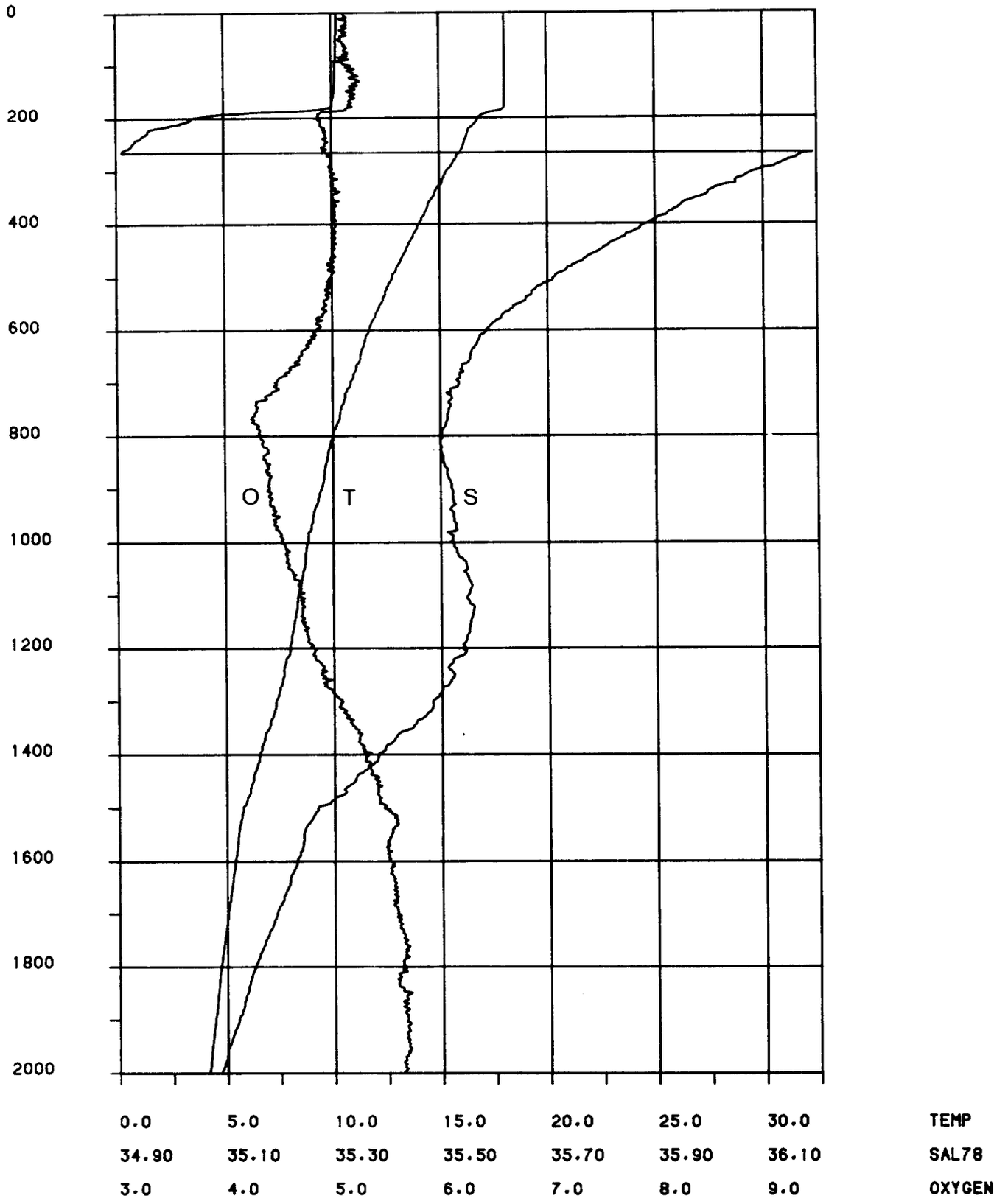


DARWIN 1/85 STN 006 31 30N 25 10W 10/01/85



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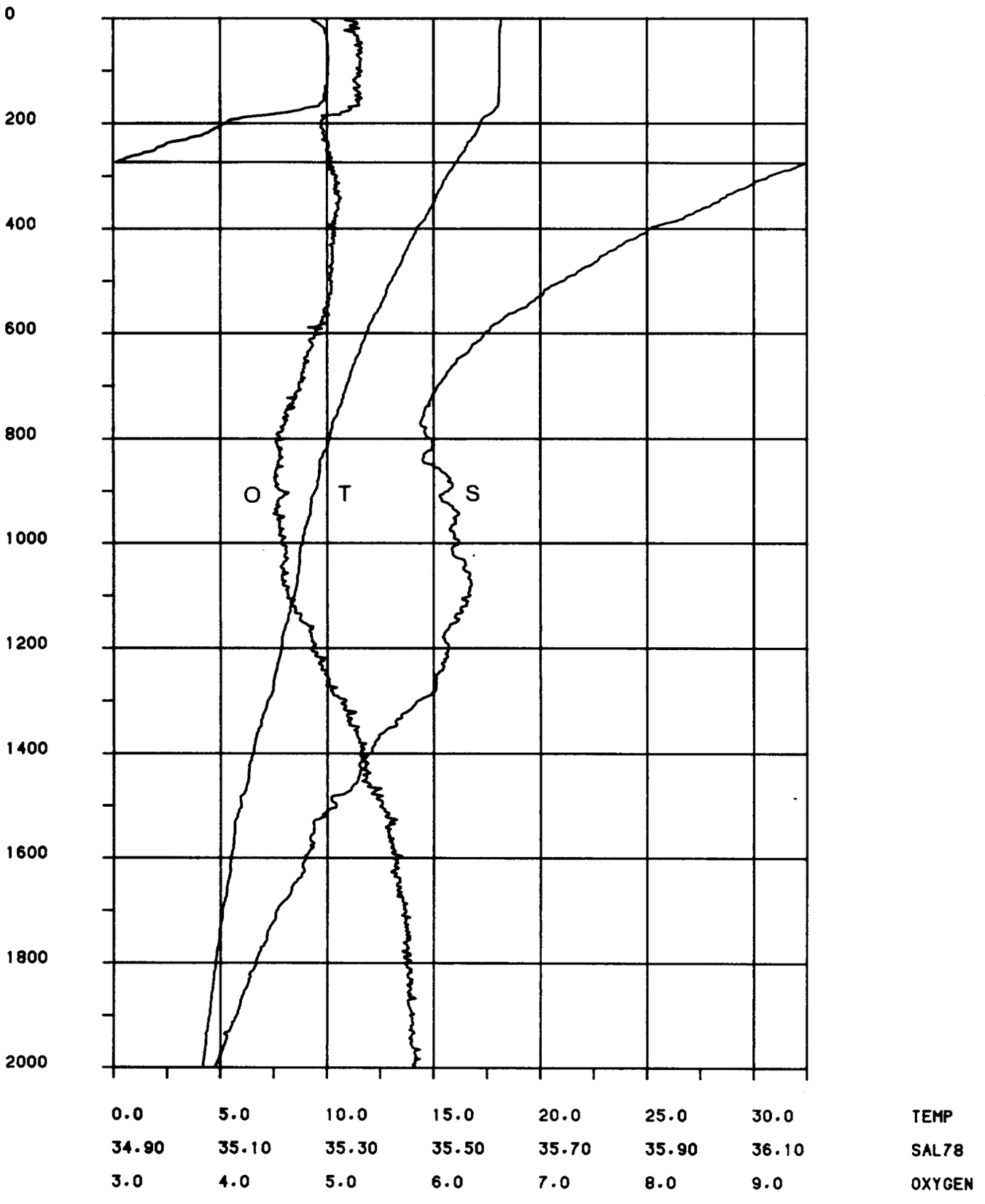

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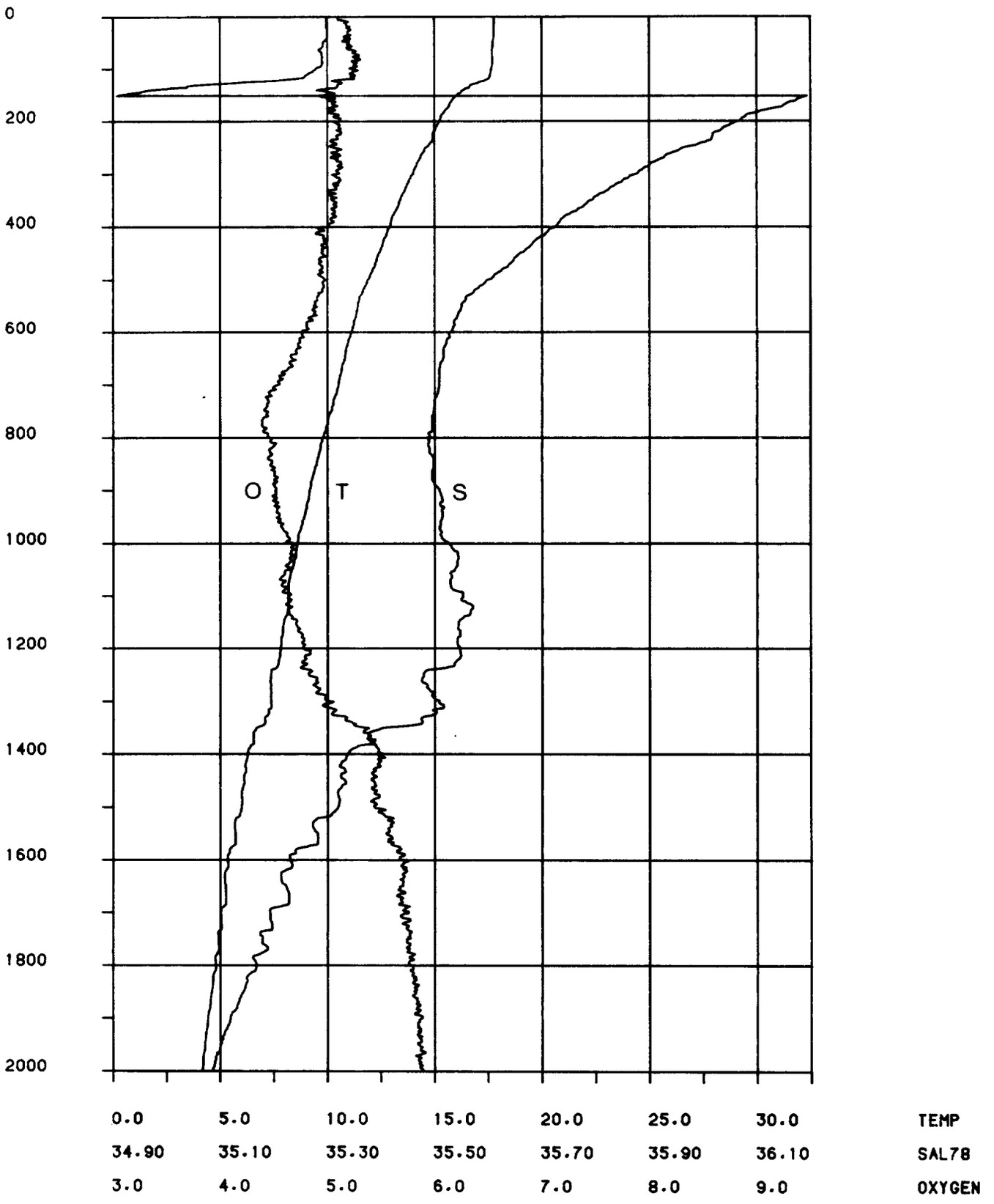

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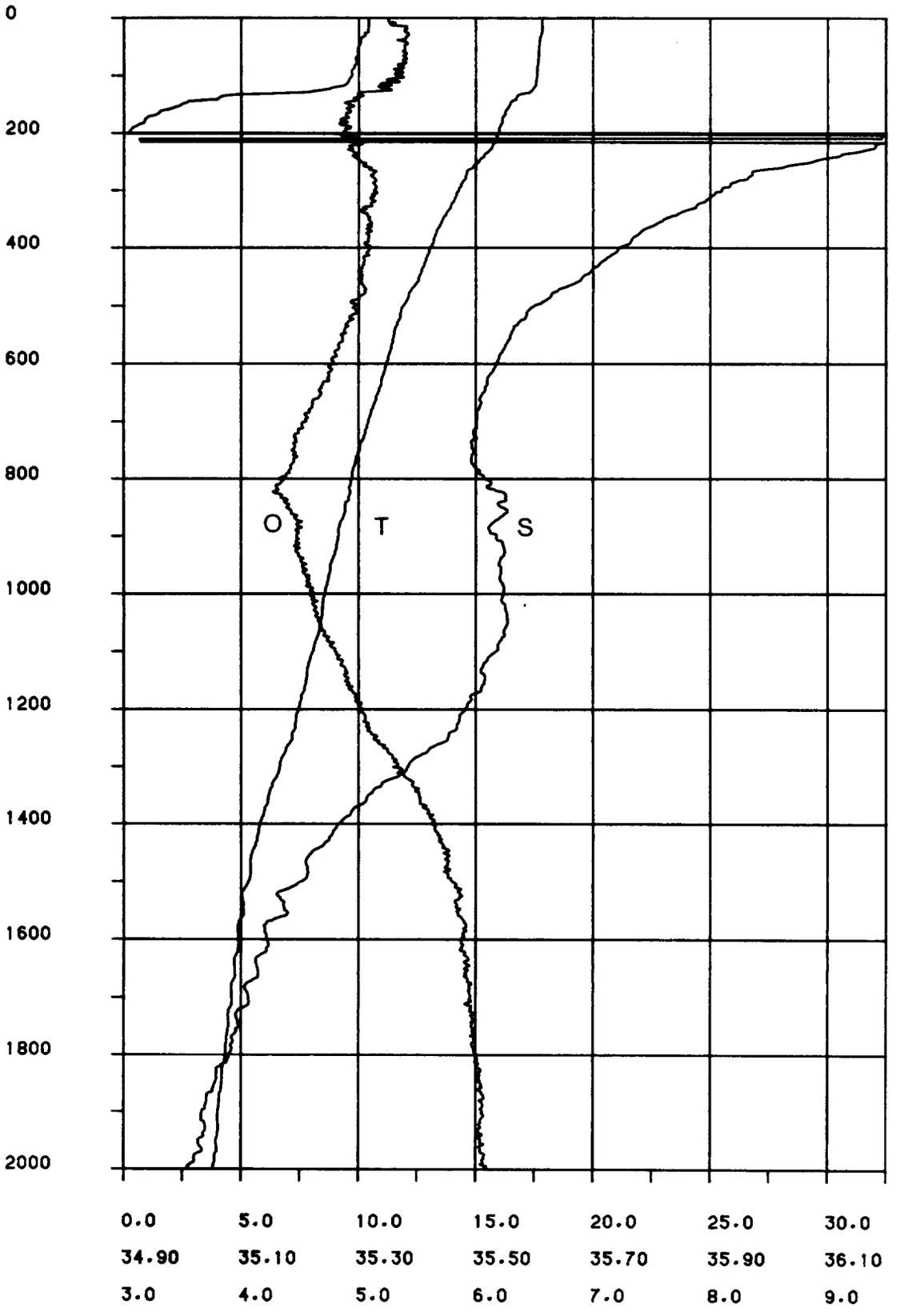

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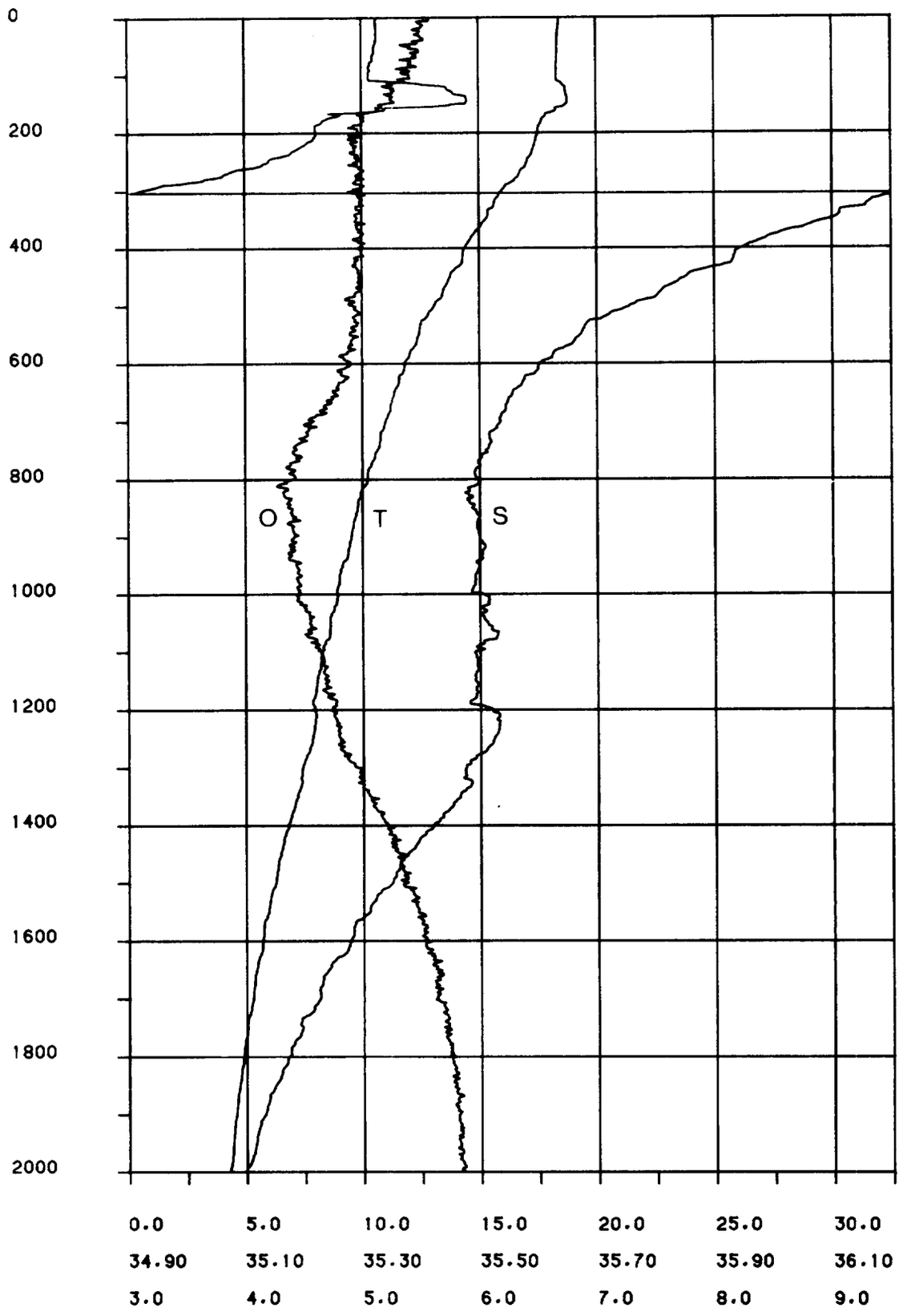

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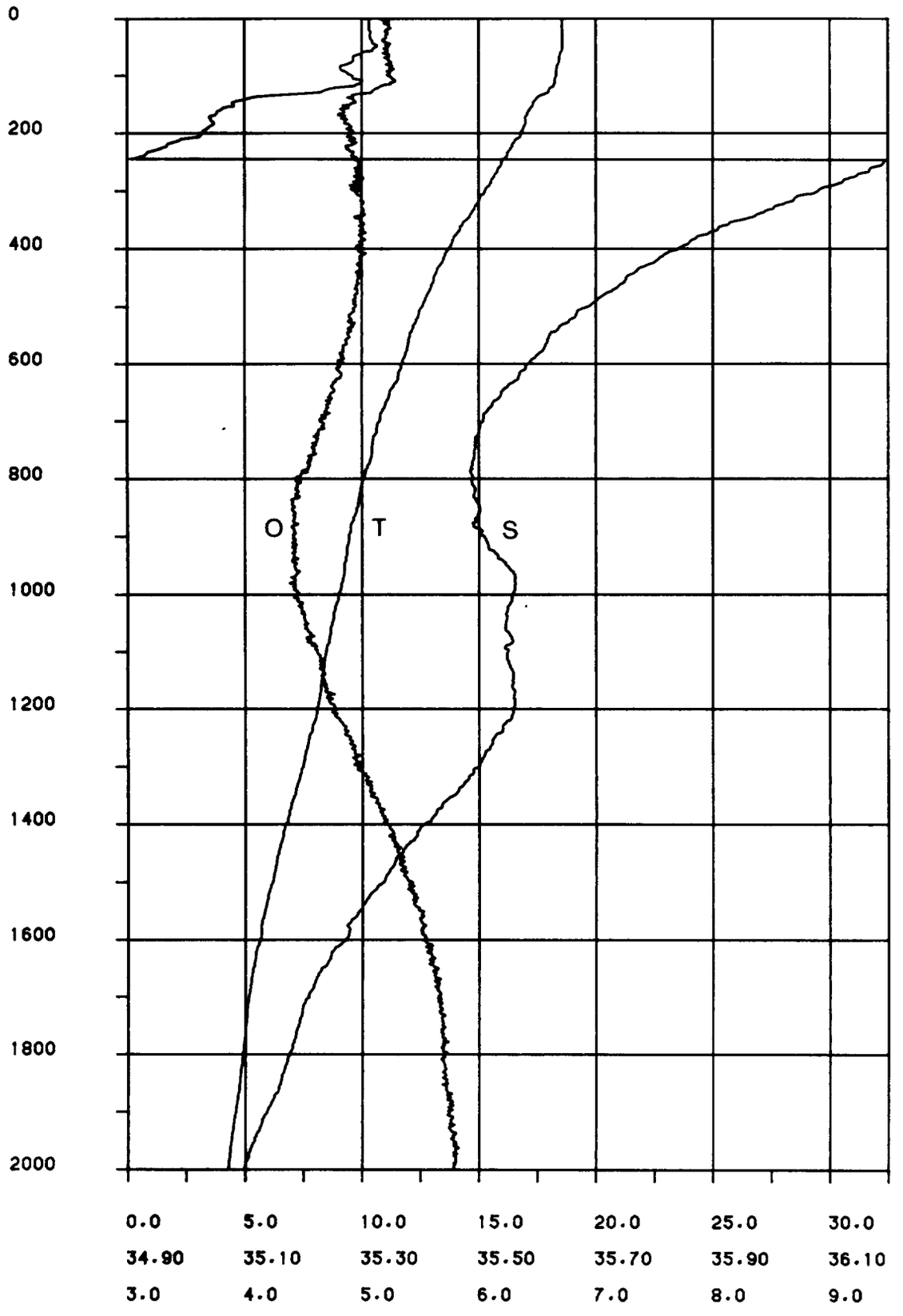

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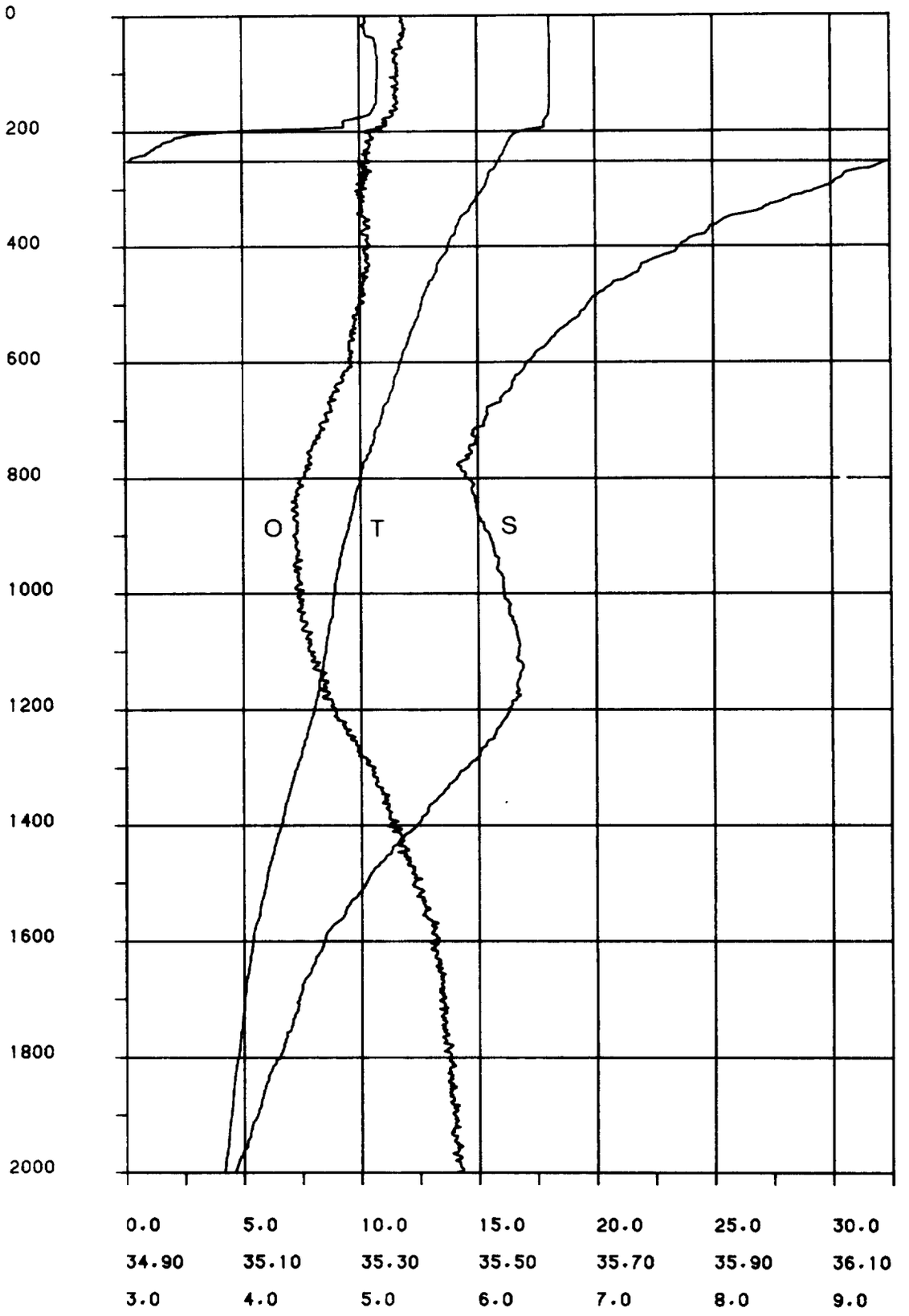

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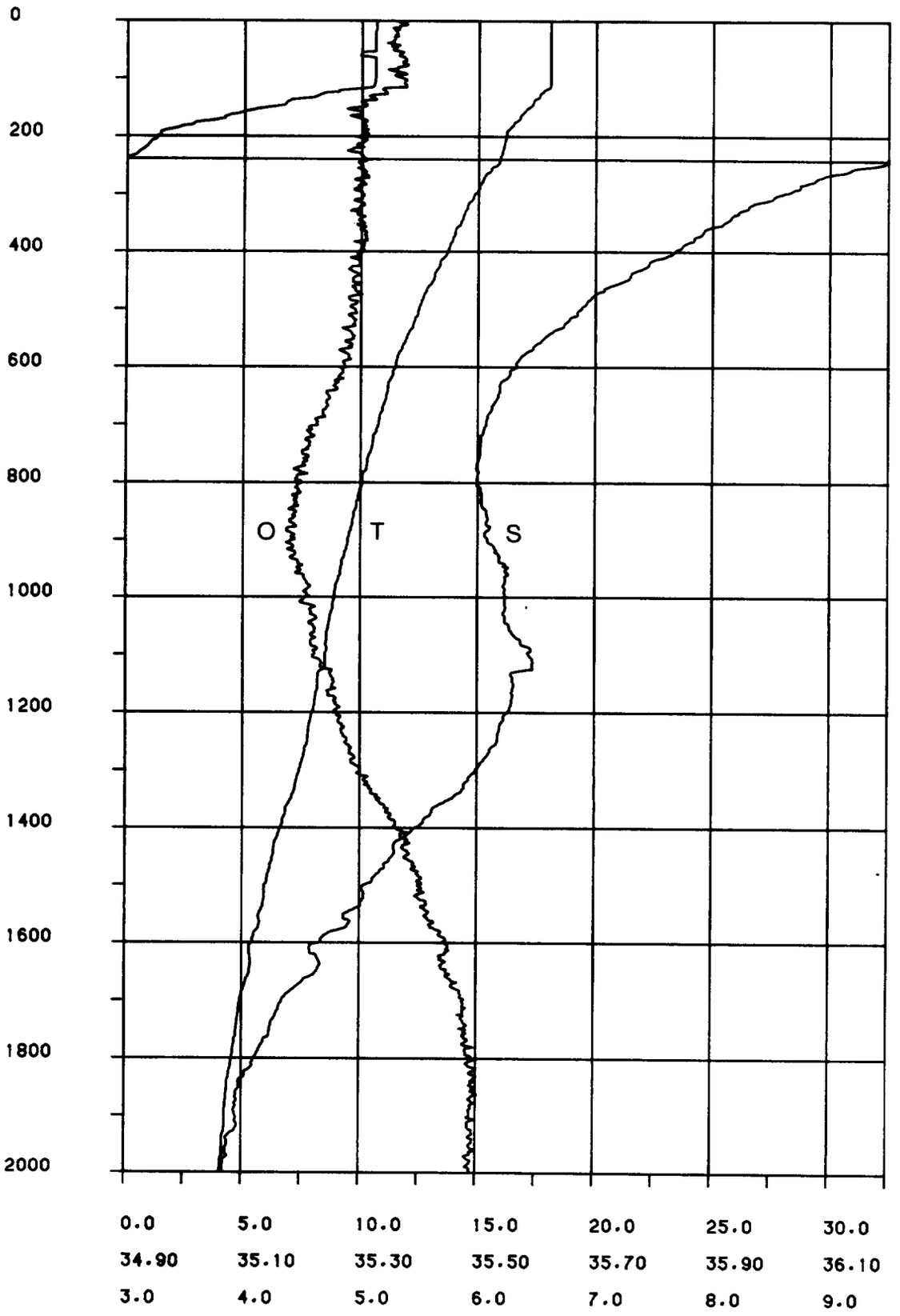

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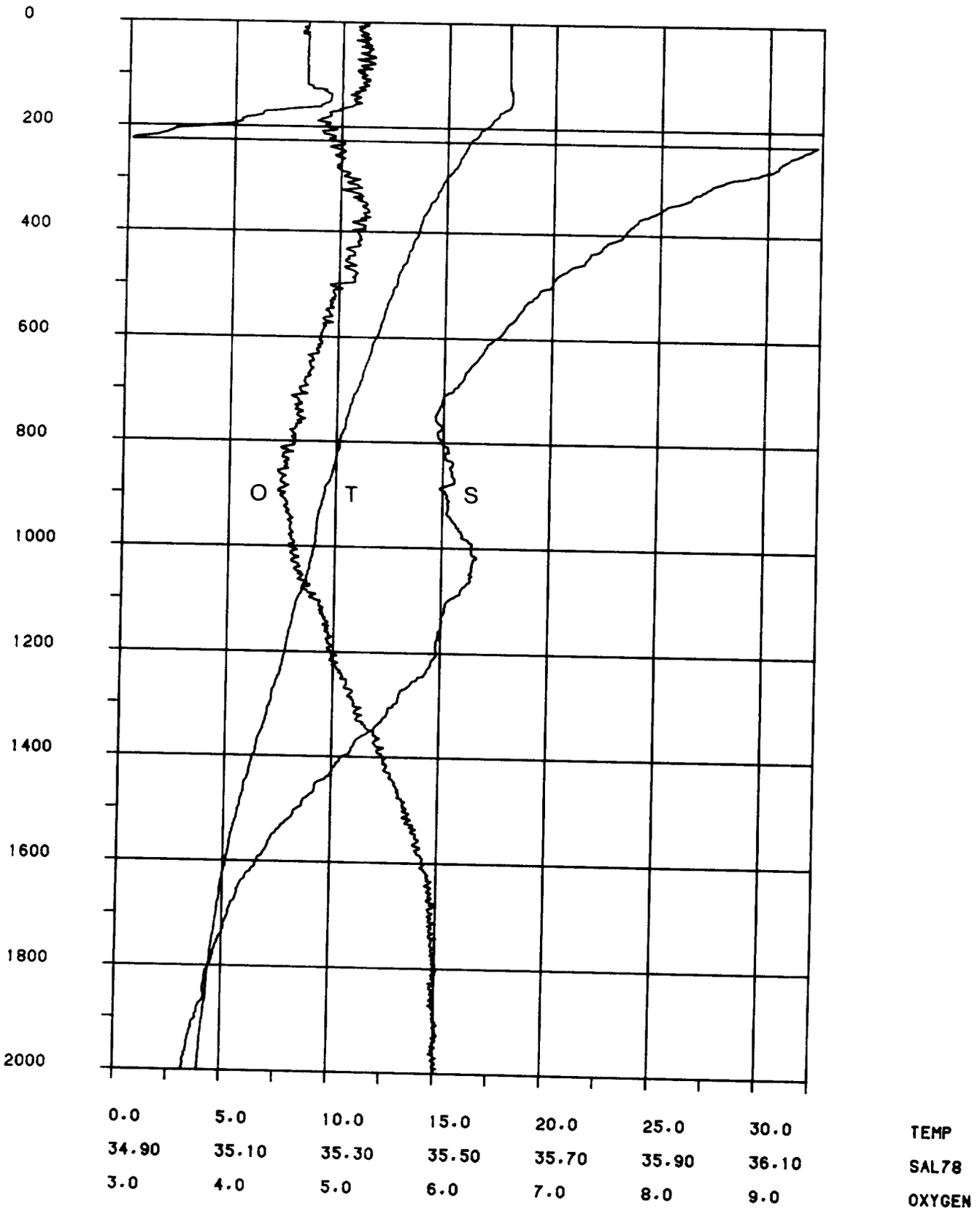
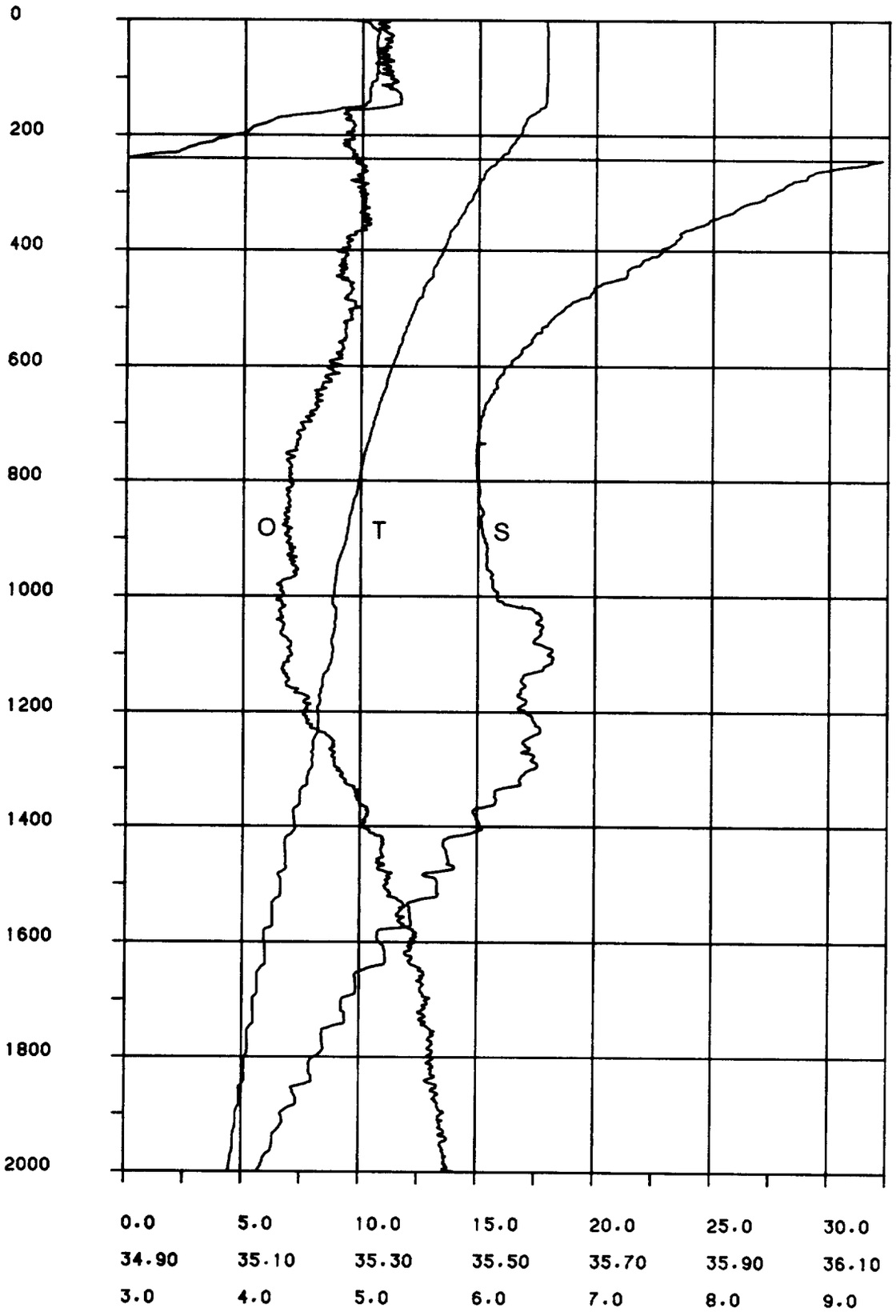


DARWIN 1/85 STN 015 32 59N 25 16W

10/01/85



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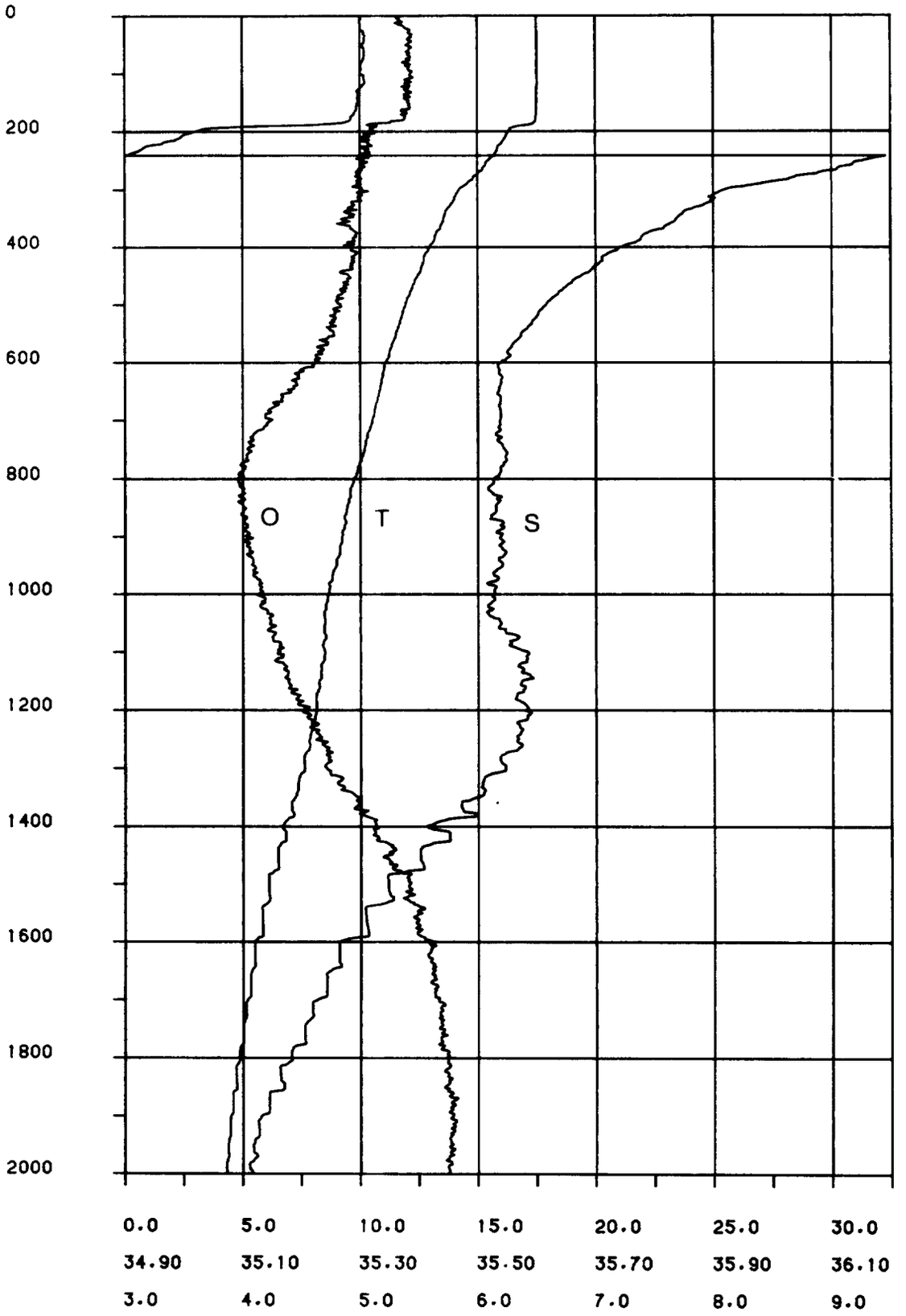
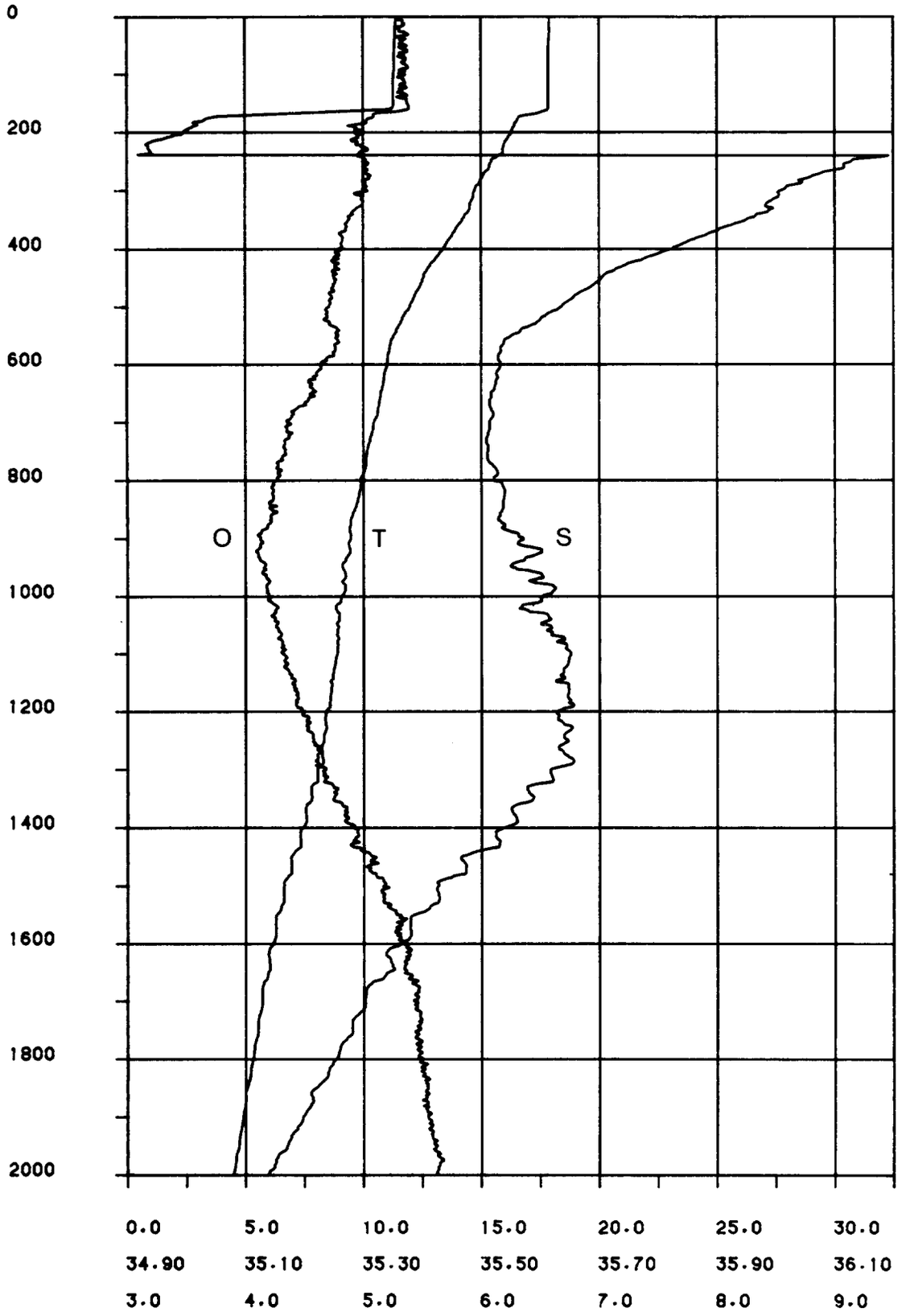
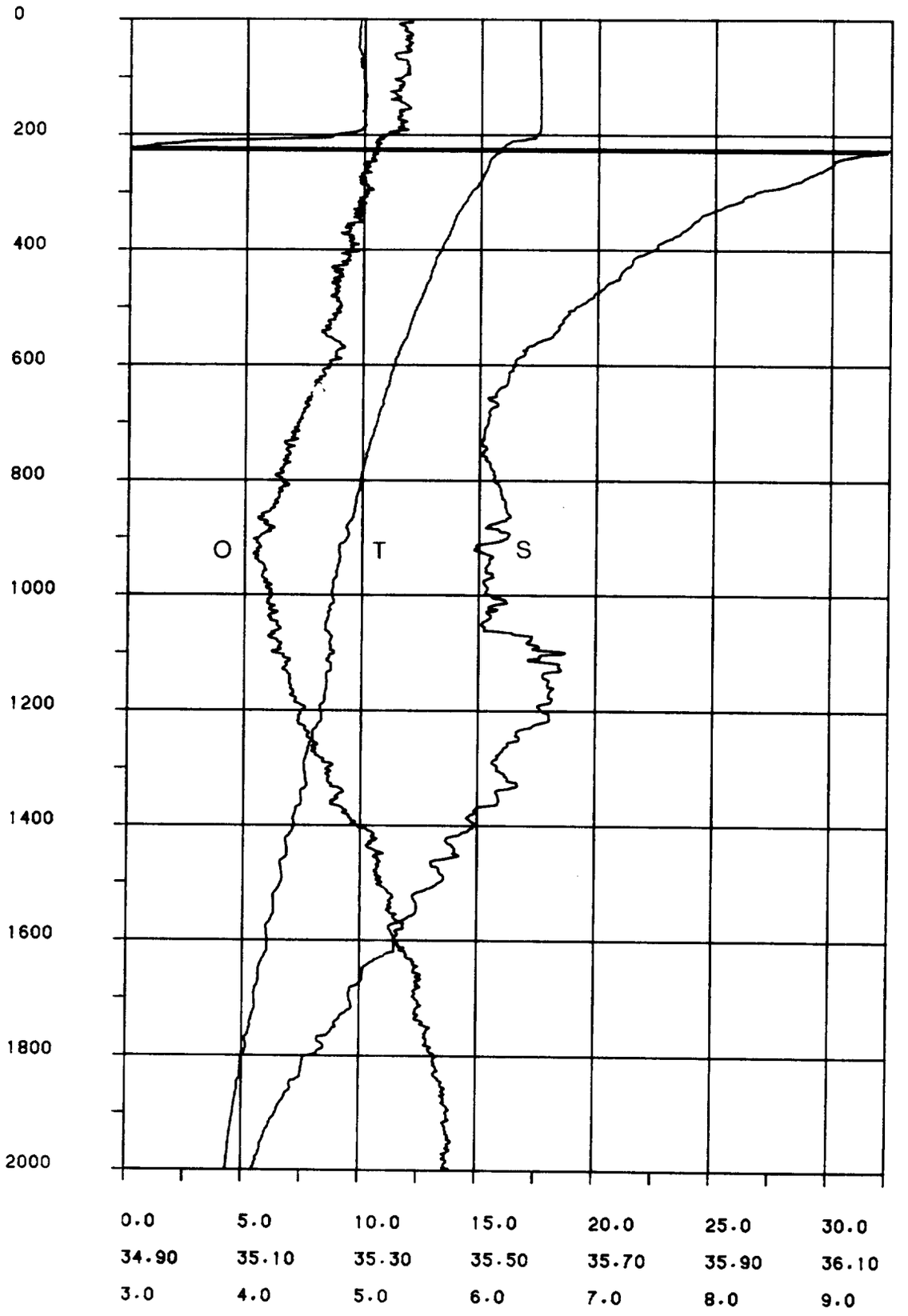
10/01/85



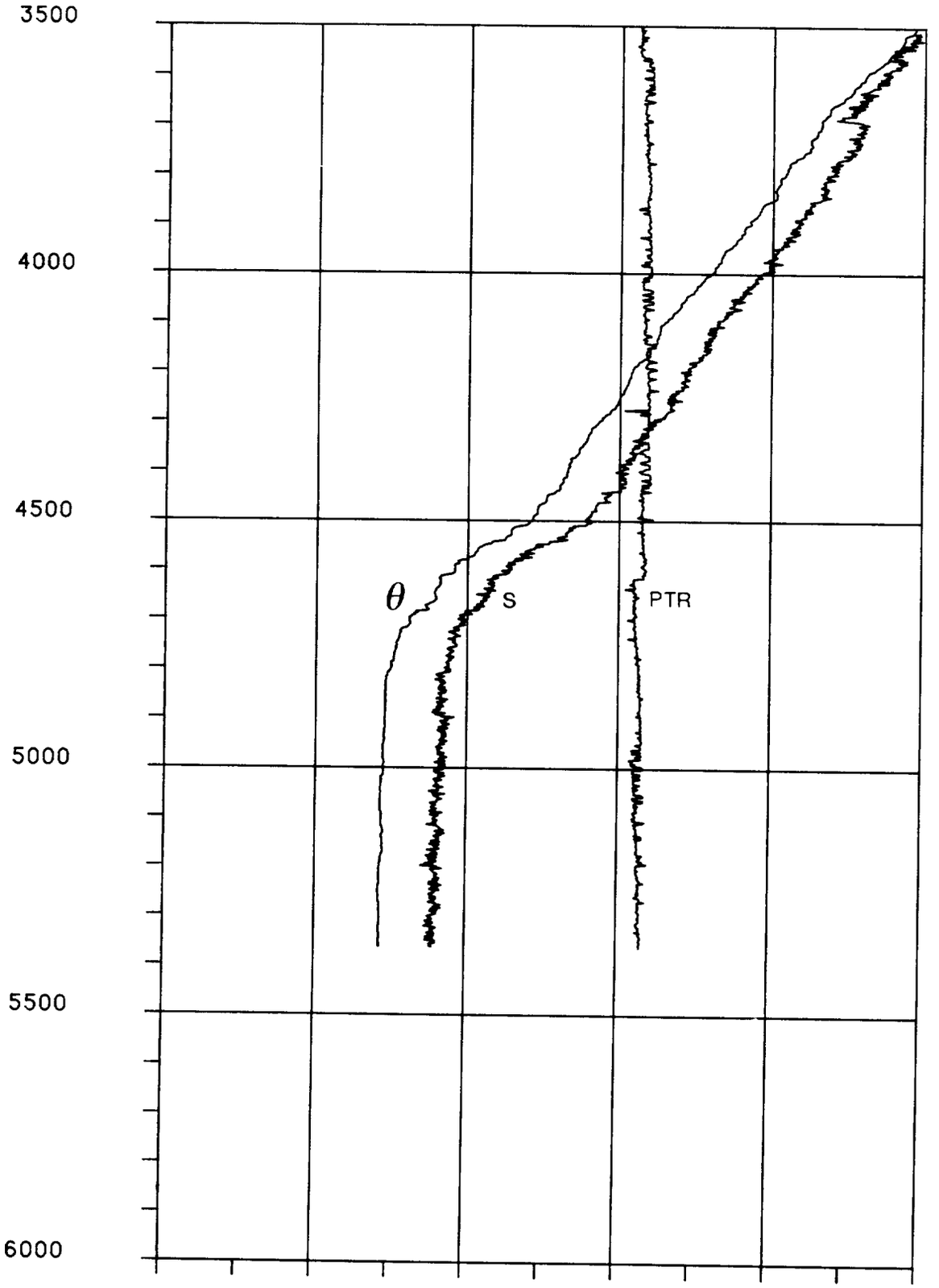
DARWIN 1/85 STN 017 31 41N 22 35W 10/01/85



DARWIN 1/85 STN 018 32 15N 21 14W 10/04/85

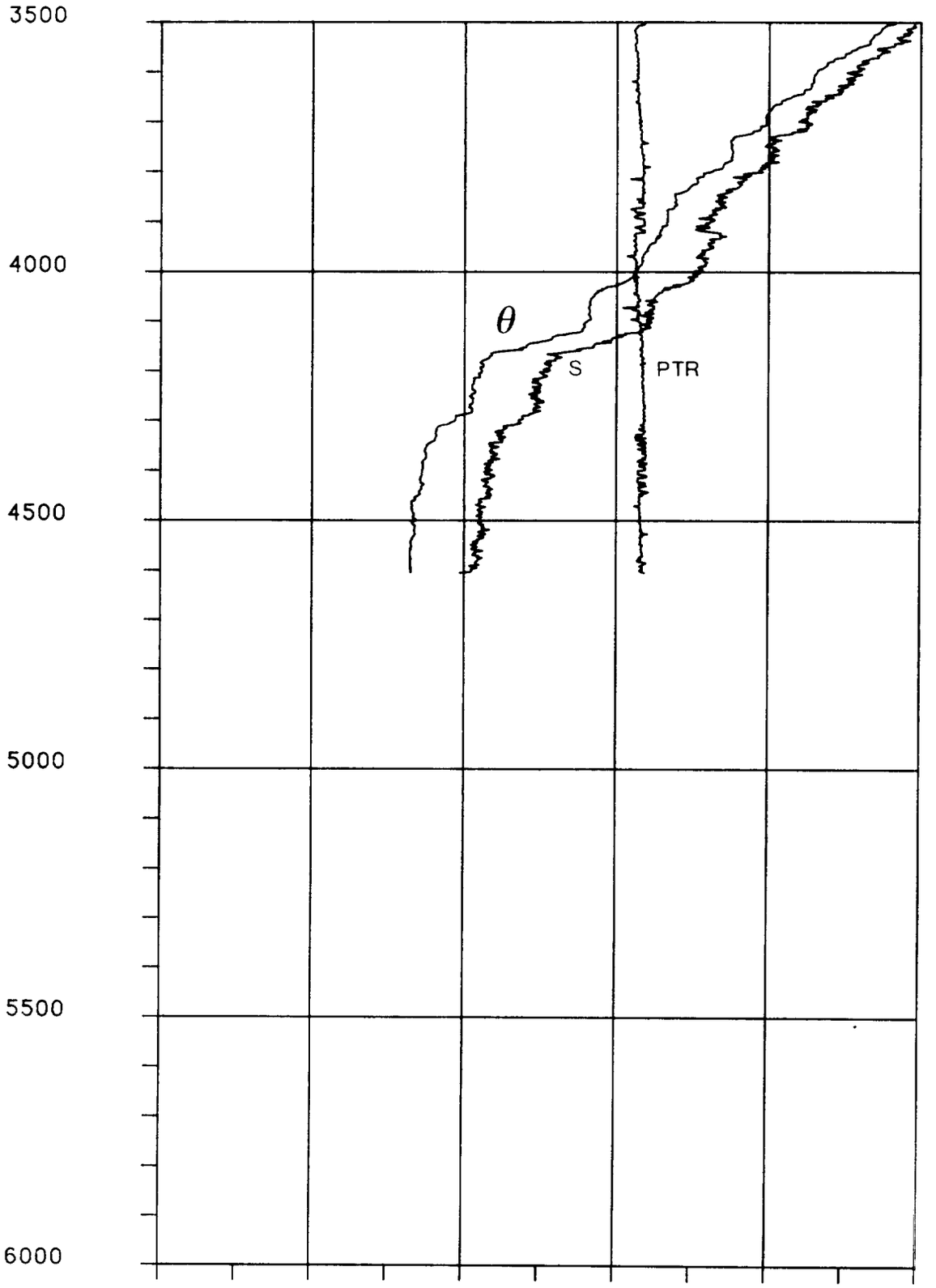


DARWIN 1/85 STN 019 32 20N 20 15W 10/03/85



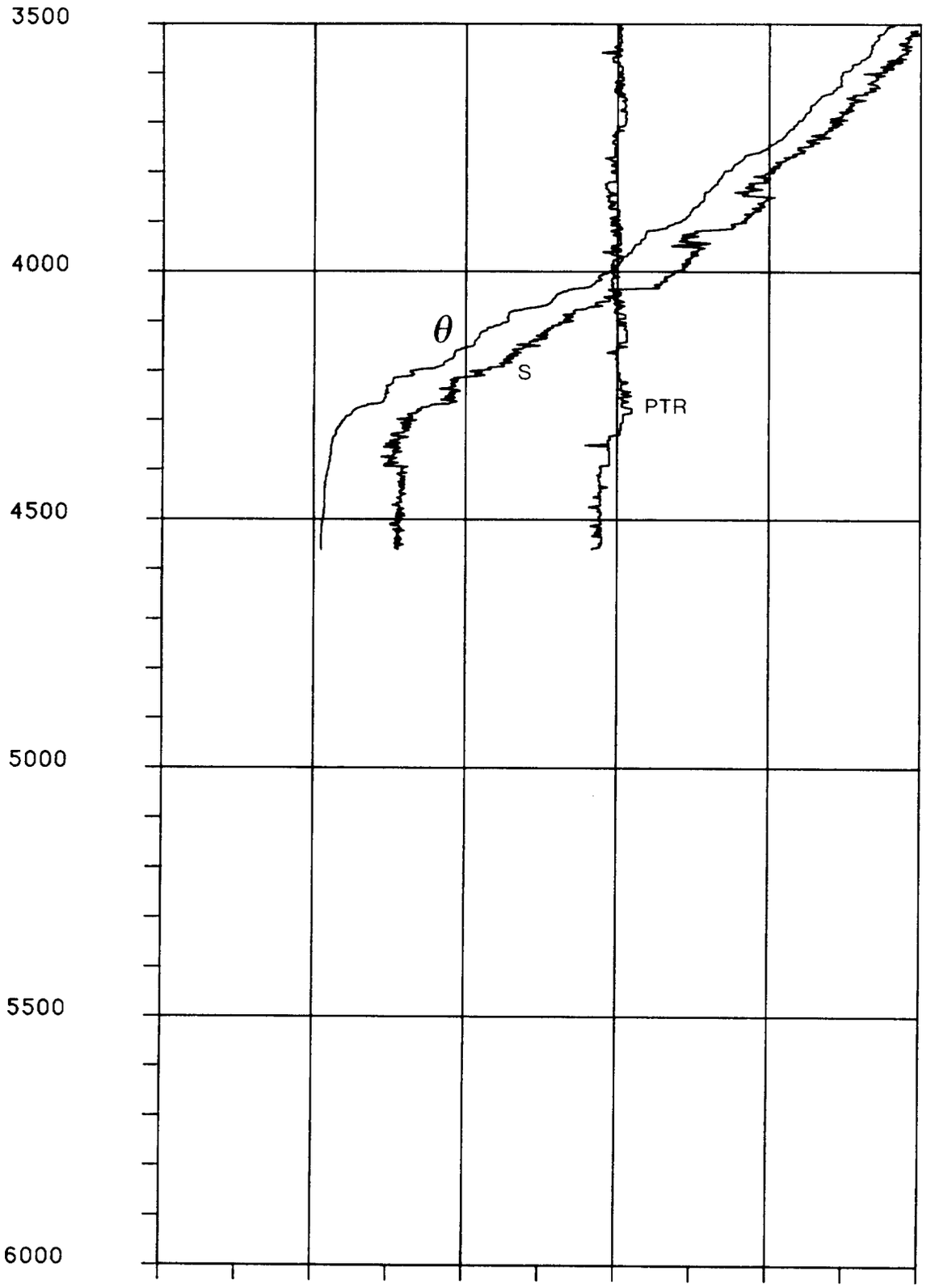
1.90	2.00	2.10	2.20	2.30	2.40	POTEMP
34.88	34.89	34.90	34.91	34.92	34.93	SAL78
67.50	68.00	68.50	69.00	69.50	70.00	POTRAN

OTXY DARWIN 1/85 STN 002 37 38N 18 53W



1.90	2.00	2.10	2.20	2.30	2.40	POTEMP
34.88	34.89	34.90	34.91	34.92	34.93	SAL78
67.50	68.00	68.50	69.00	69.50	70.00	POTRAN

LOTXY DARWIN 1/85 STN 003 37 28N 18 50W



1.90	2.00	2.10	2.20	2.30	2.40	POTEMP
34.88	34.89	34.90	34.91	34.92	34.93	SAL78
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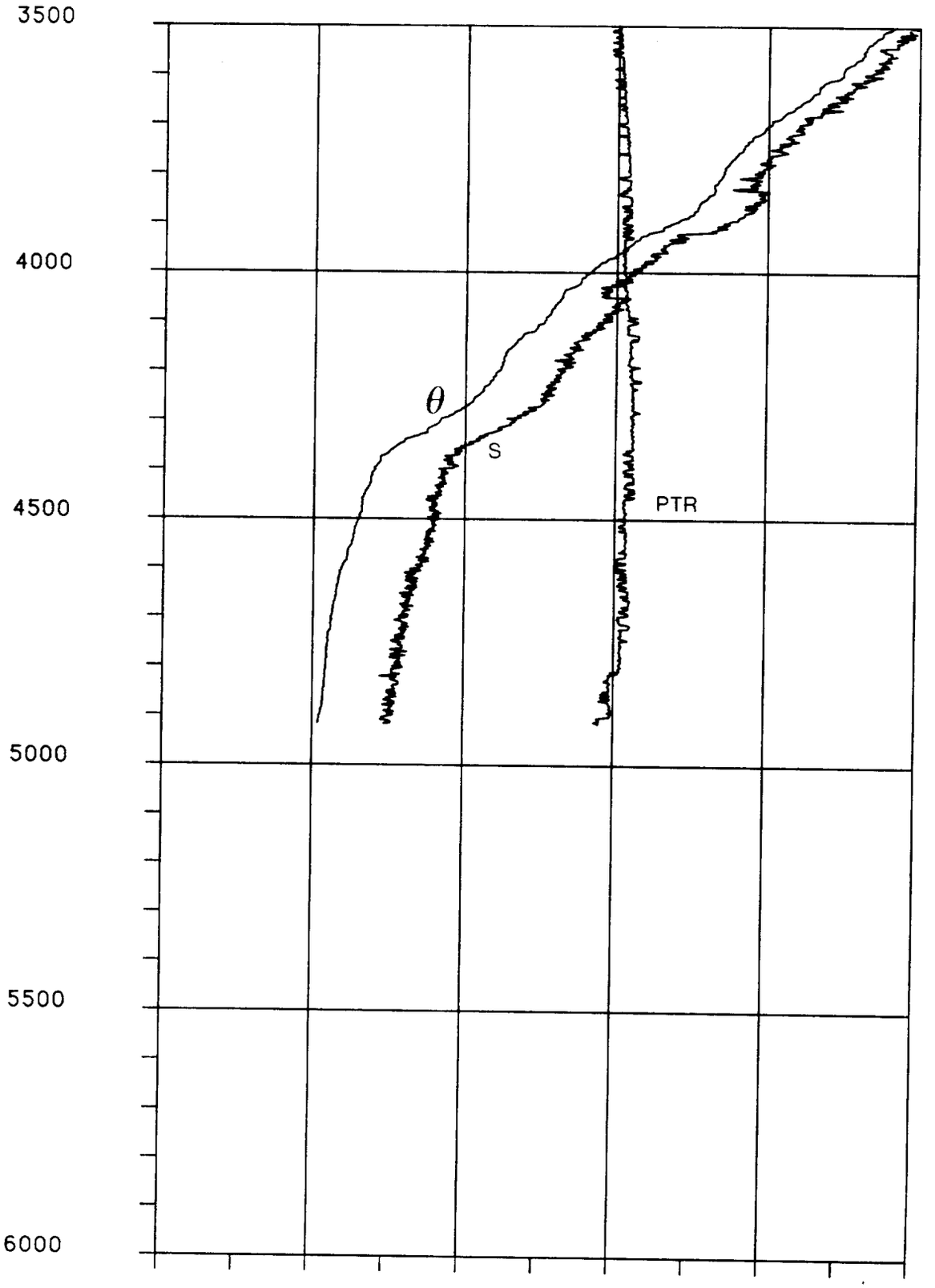
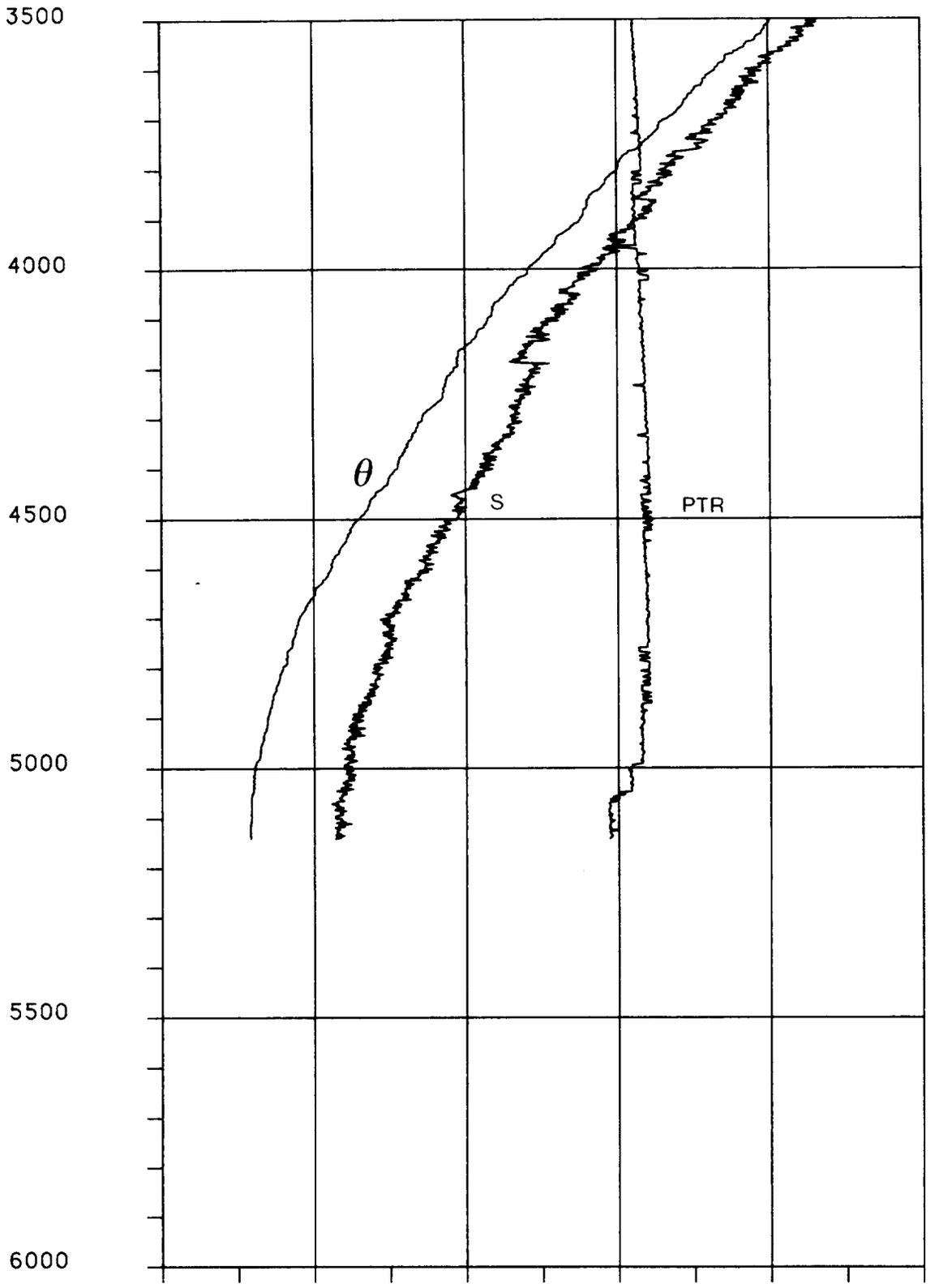
OTXY DARWIN 1/85 STN 004 37 13N 18 49W



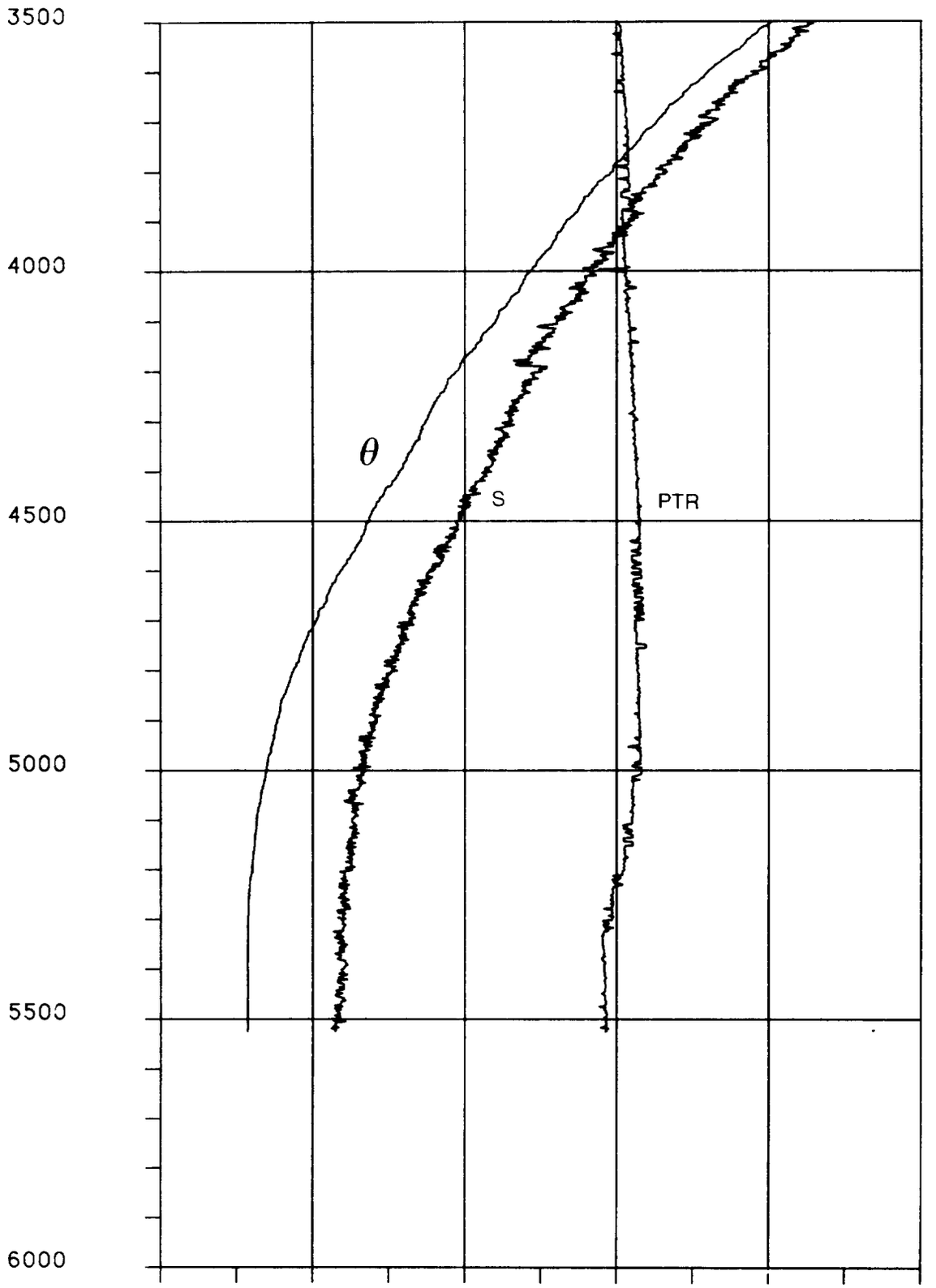
1.90	2.00	2.10	2.20	2.30	2.40	POTEMP
34.88	34.89	34.90	34.91	34.92	34.93	SAL78
67.50	68.00	68.50	69.00	69.50	70.00	POTRAN

LOTXY DARWIN 1/85 STN 005 36 58N 18 53W



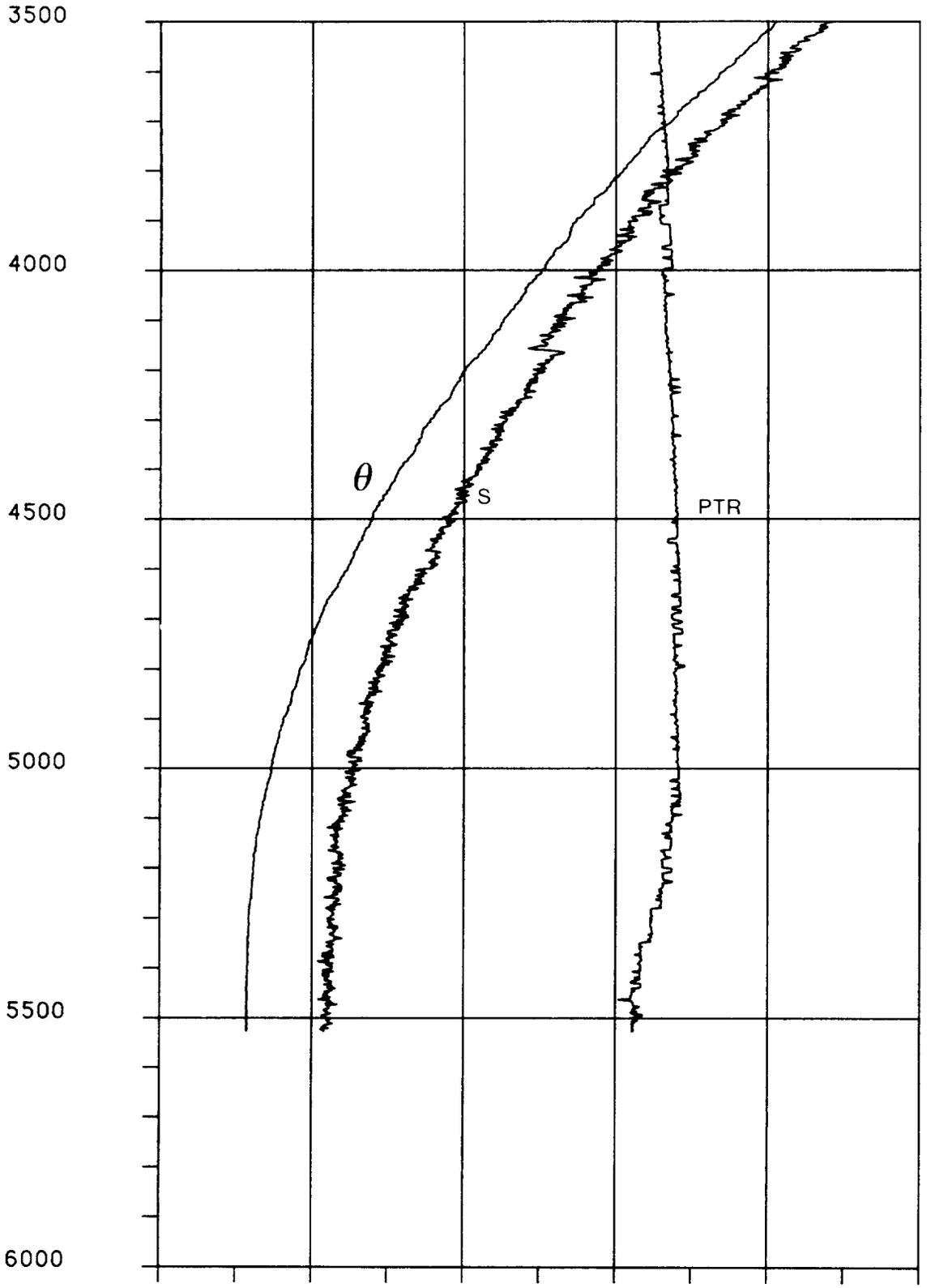
1.90	2.00	2.10	2.20	2.30	2.40	POTEMP
34.88	34.89	34.90	34.91	34.92	34.93	SAL78
67.50	68.00	68.50	69.00	69.50	70.00	POTRAN

OTXY DARWIN 1/85 STN 006 31 30N 25 10W



1.90	2.00	2.10	2.20	2.30	2.40	POTEMP
34.88	34.89	34.90	34.91	34.92	34.93	SAL78
67.50	68.00	68.50	69.00	69.50	70.00	POTRAN

LOTXY DARWIN 1/85 STN 007 31 31N 25 03W



1.90	2.00	2.10	2.20	2.30	2.40	POTEMP
34.88	34.89	34.90	34.91	34.92	34.93	SAL78
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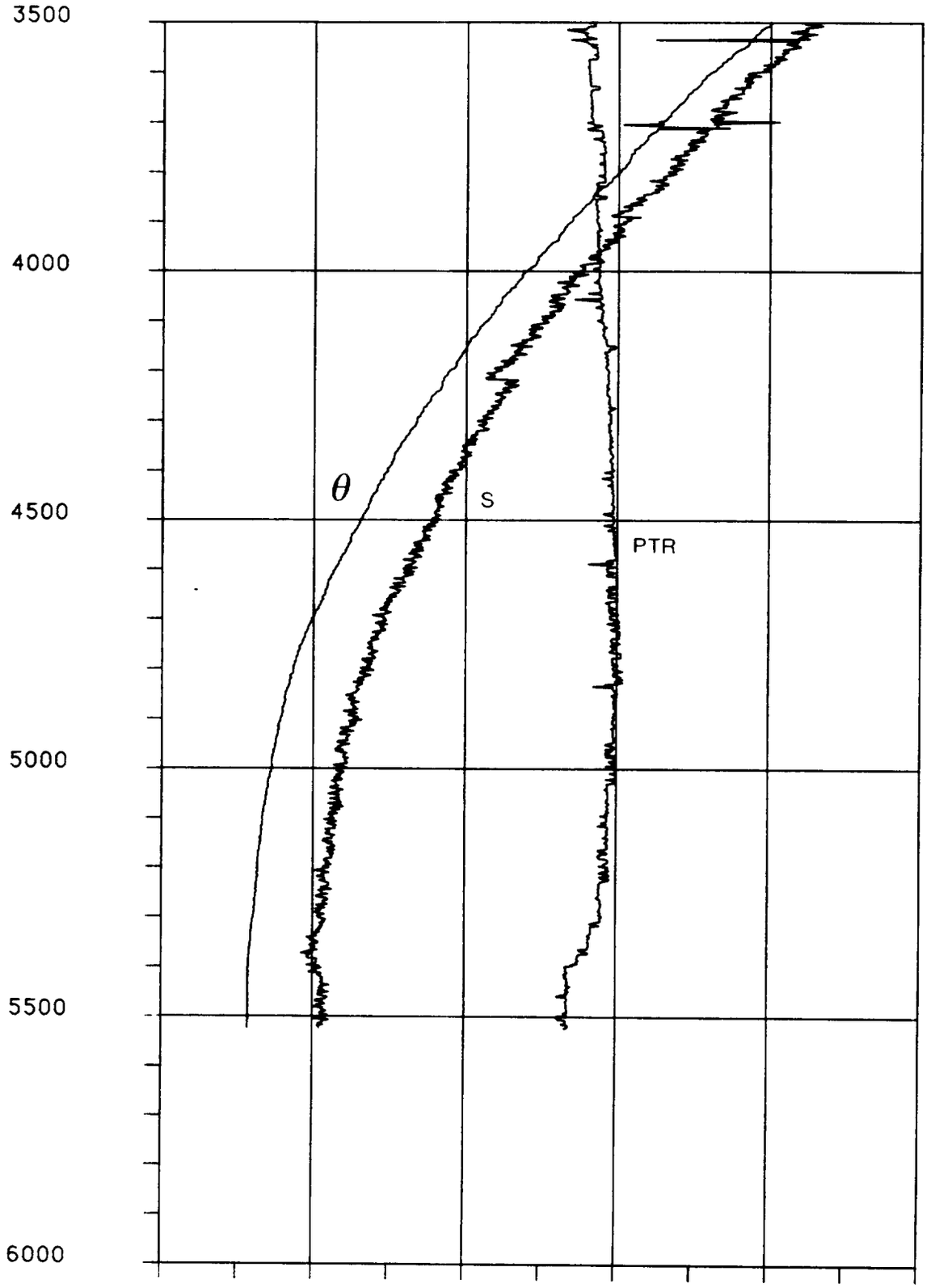
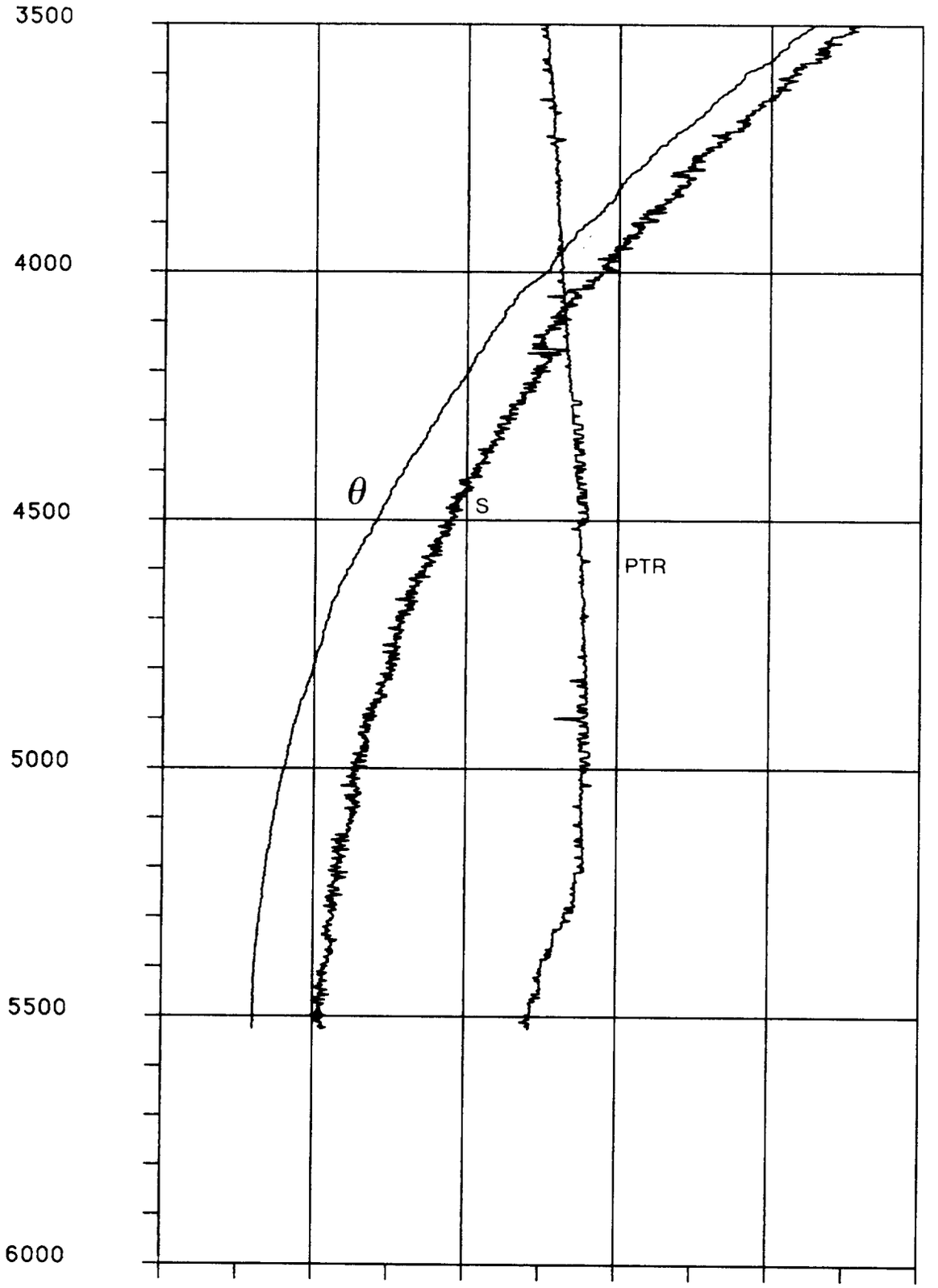
OTXY DARWIN 1/85 STN 008 31 29N 24 45W



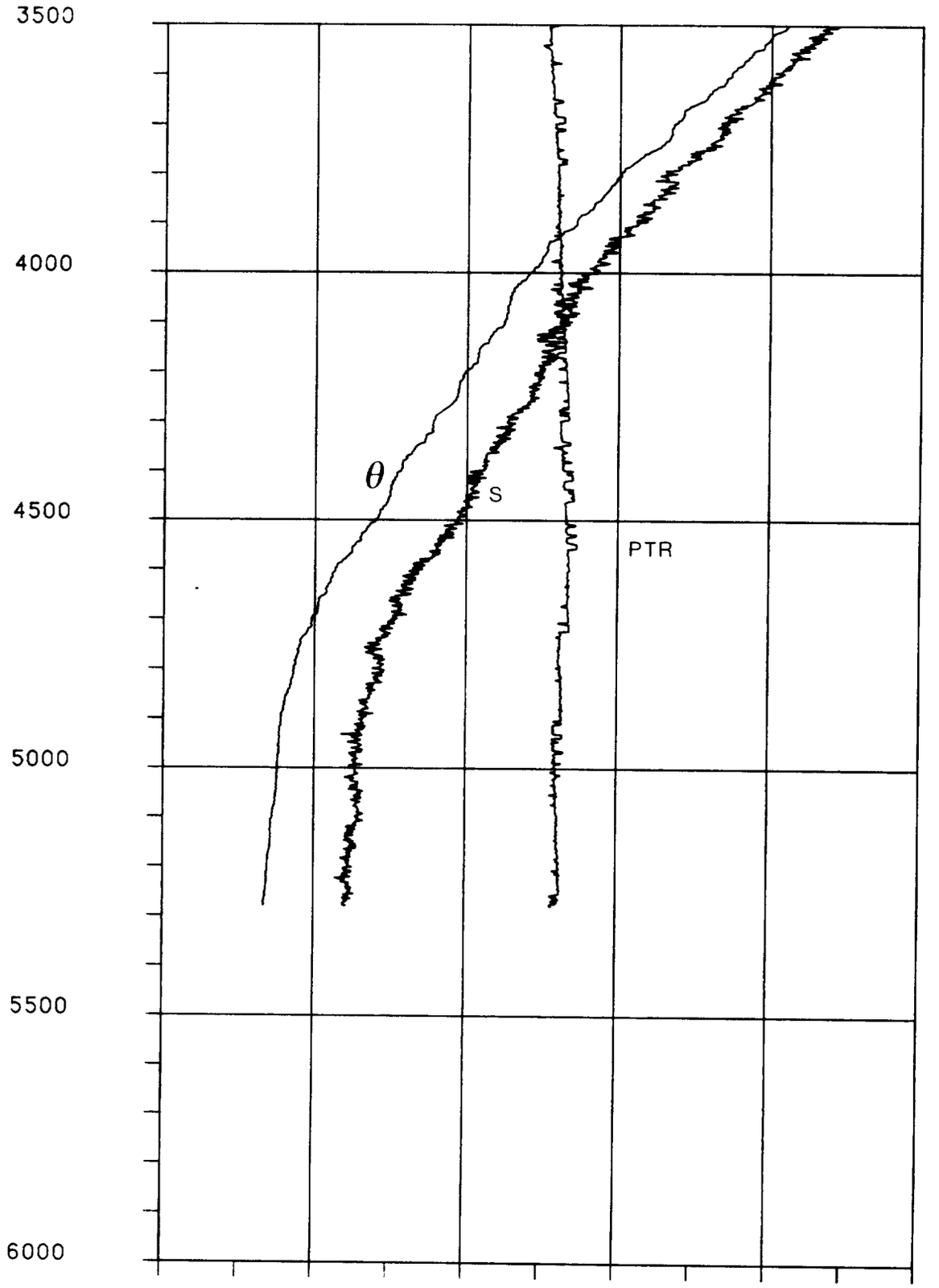
1.90	2.00	2.10	2.20	2.30	2.40	POTEMP
34.88	34.89	34.90	34.91	34.92	34.93	SAL78
67.50	68.00	68.50	69.00	69.50	70.00	POTRAN

'LOTXY DARWIN 1/85 STN 009 31 59N 24 00W



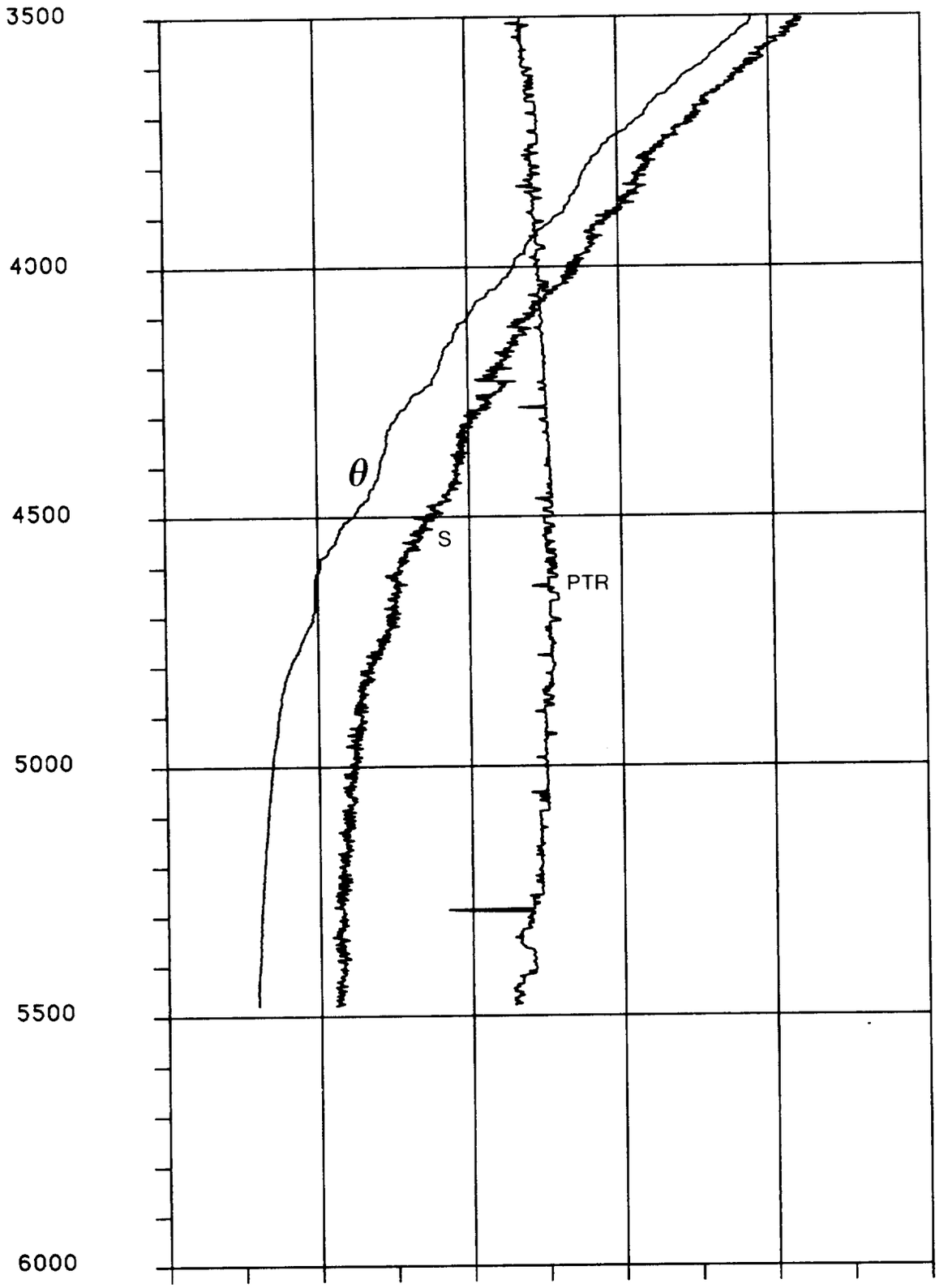
1.90	2.00	2.10	2.20	2.30	2.40	POTEMP
34.88	34.89	34.90	34.91	34.92	34.93	SAL78
67.50	68.00	68.50	69.00	69.50	70.00	POTRAN

OTXY DARWIN 1/85 STN 010 31 29N 24 21W



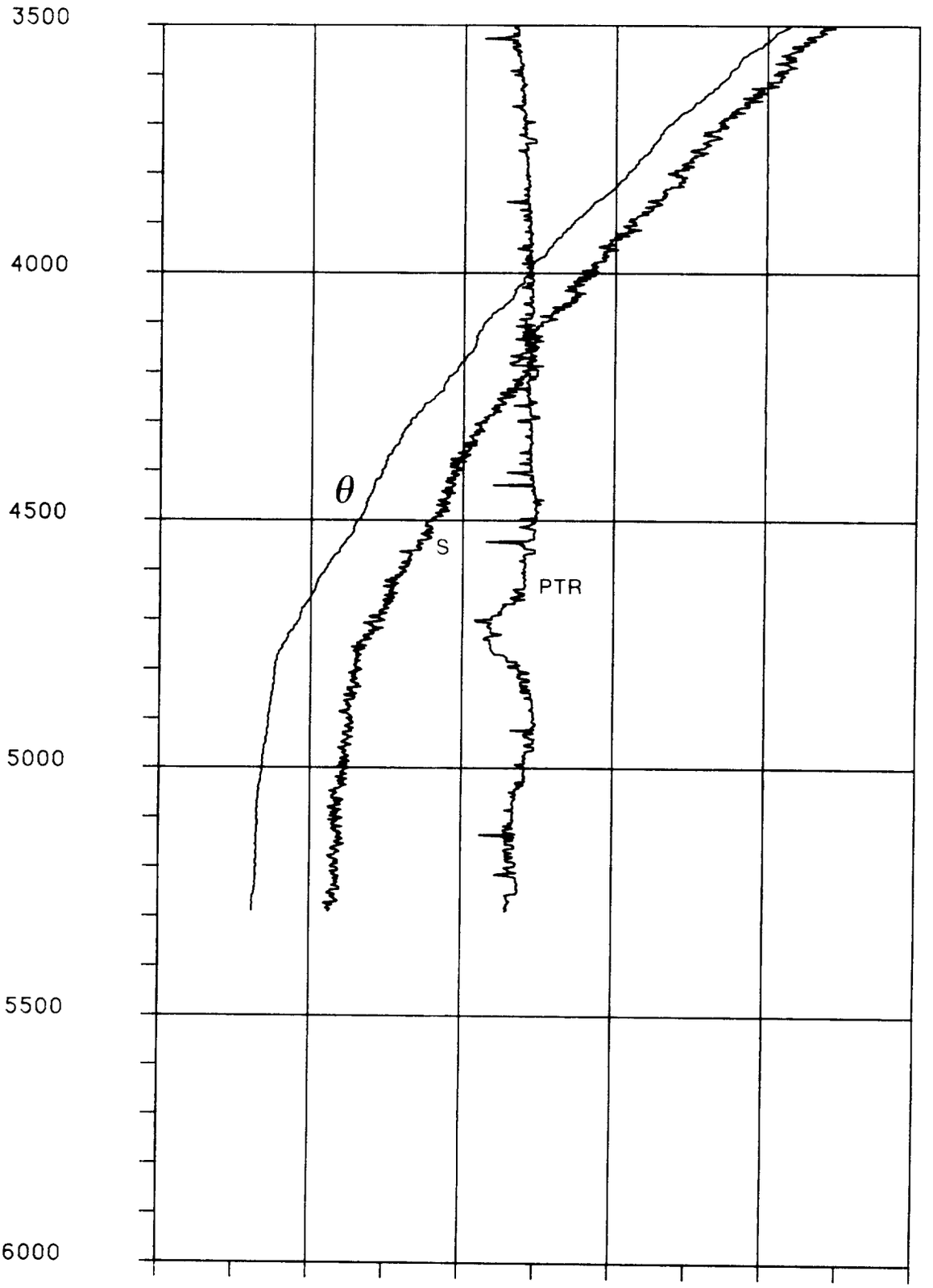
1.90	2.00	2.10	2.20	2.30	2.40	POTEMP
34.88	34.89	34.90	34.91	34.92	34.93	SAL78
67.50	68.00	68.50	69.00	69.50	70.00	POTRAN

'LOTXY DARWIN 1/85 STN 011 31 33N 26 07W



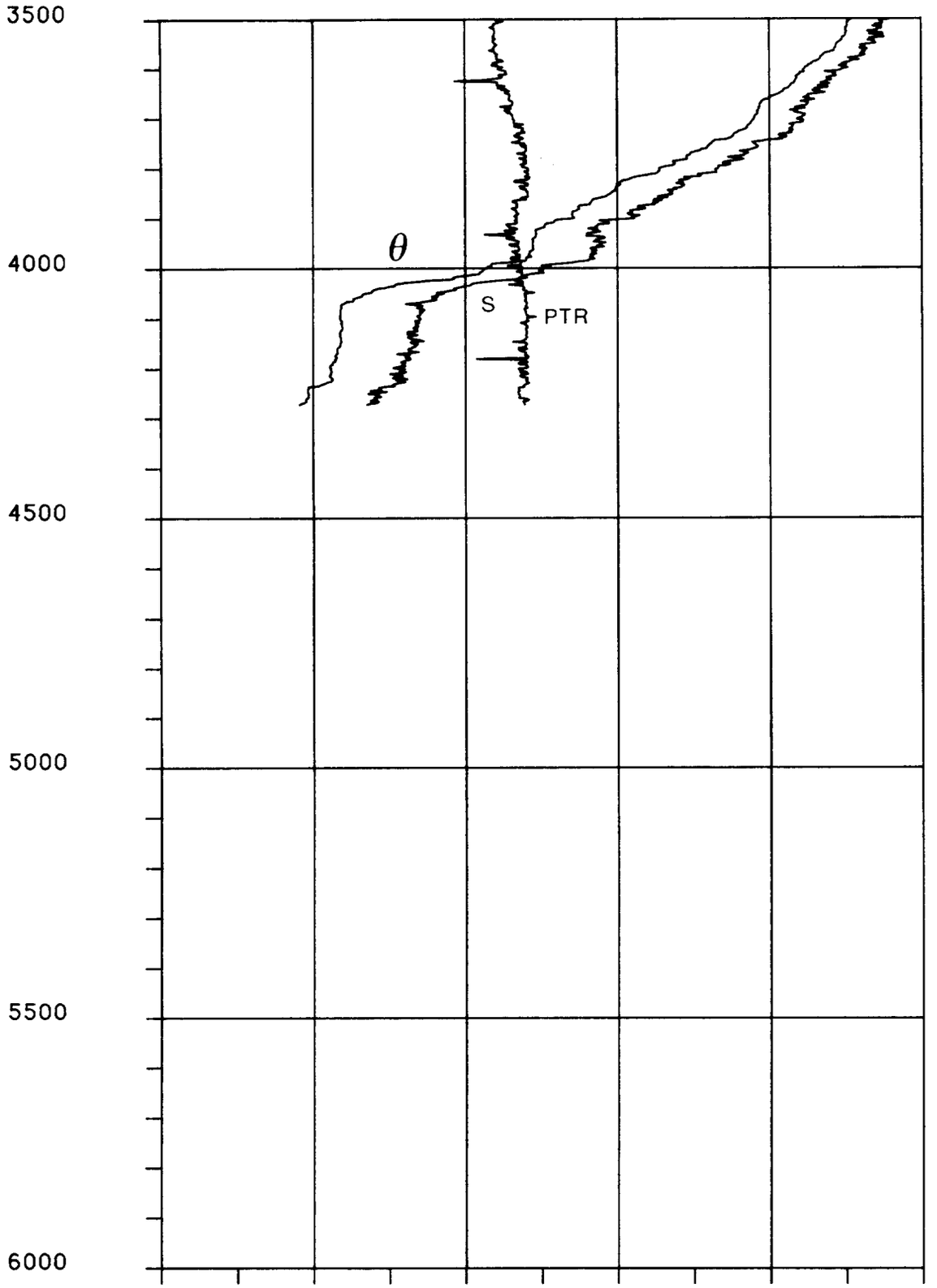
1.90	2.00	2.10	2.20	2.30	2.40	POTEMP
34.88	34.89	34.90	34.91	34.92	34.93	SAL78
67.50	68.00	68.50	69.00	69.50	70.00	POTRAN

OTXY DARWIN 1/85 STN 012 31 47N 26 37W



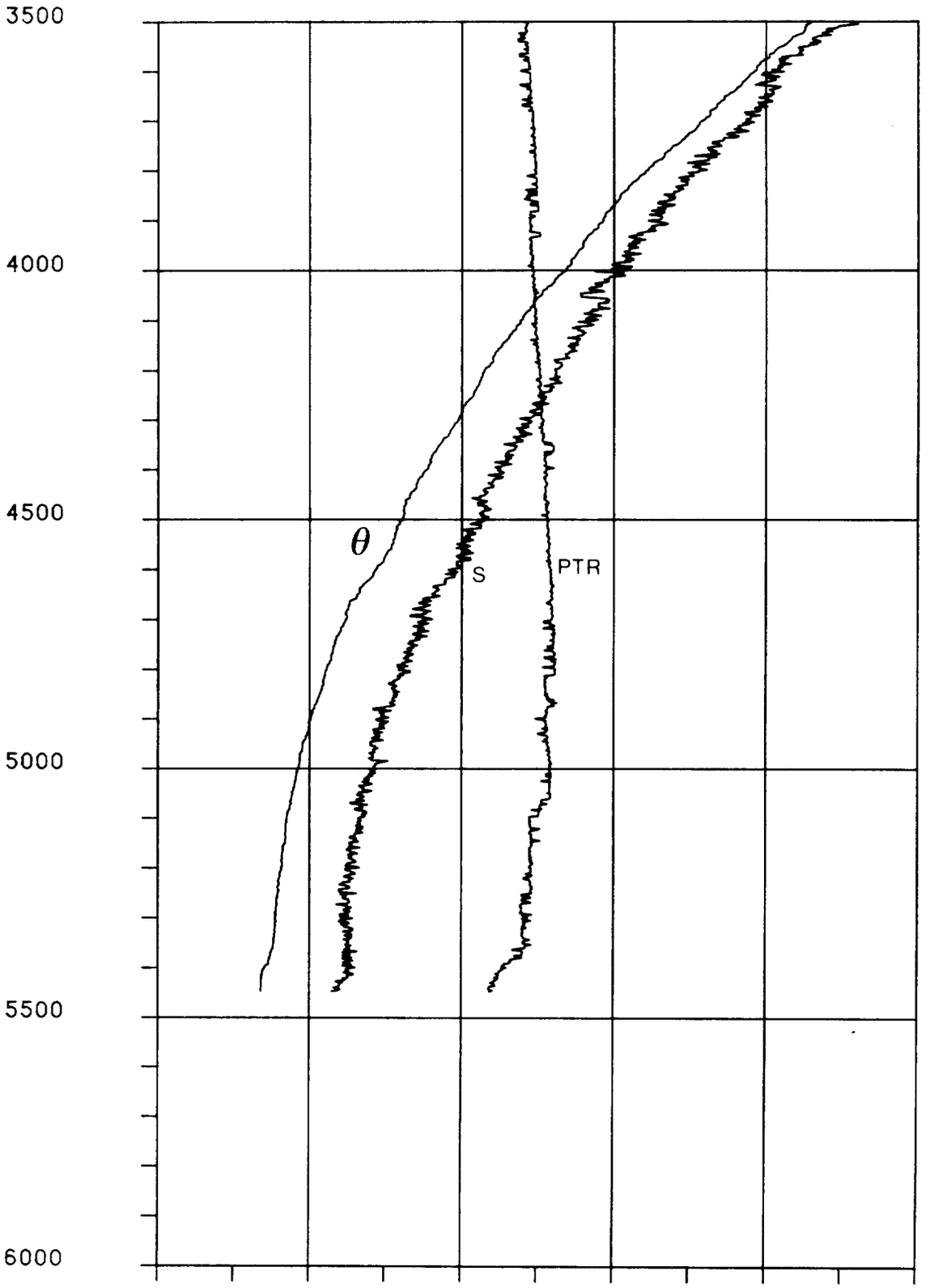
1.90	2.00	2.10	2.20	2.30	2.40	POTEMP
34.88	34.89	34.90	34.91	34.92	34.93	SAL78
67.50	68.00	68.50	69.00	69.50	70.00	POTRAN

'LOTXY DARWIN 1/85 STN 013 31 56N 27 00W



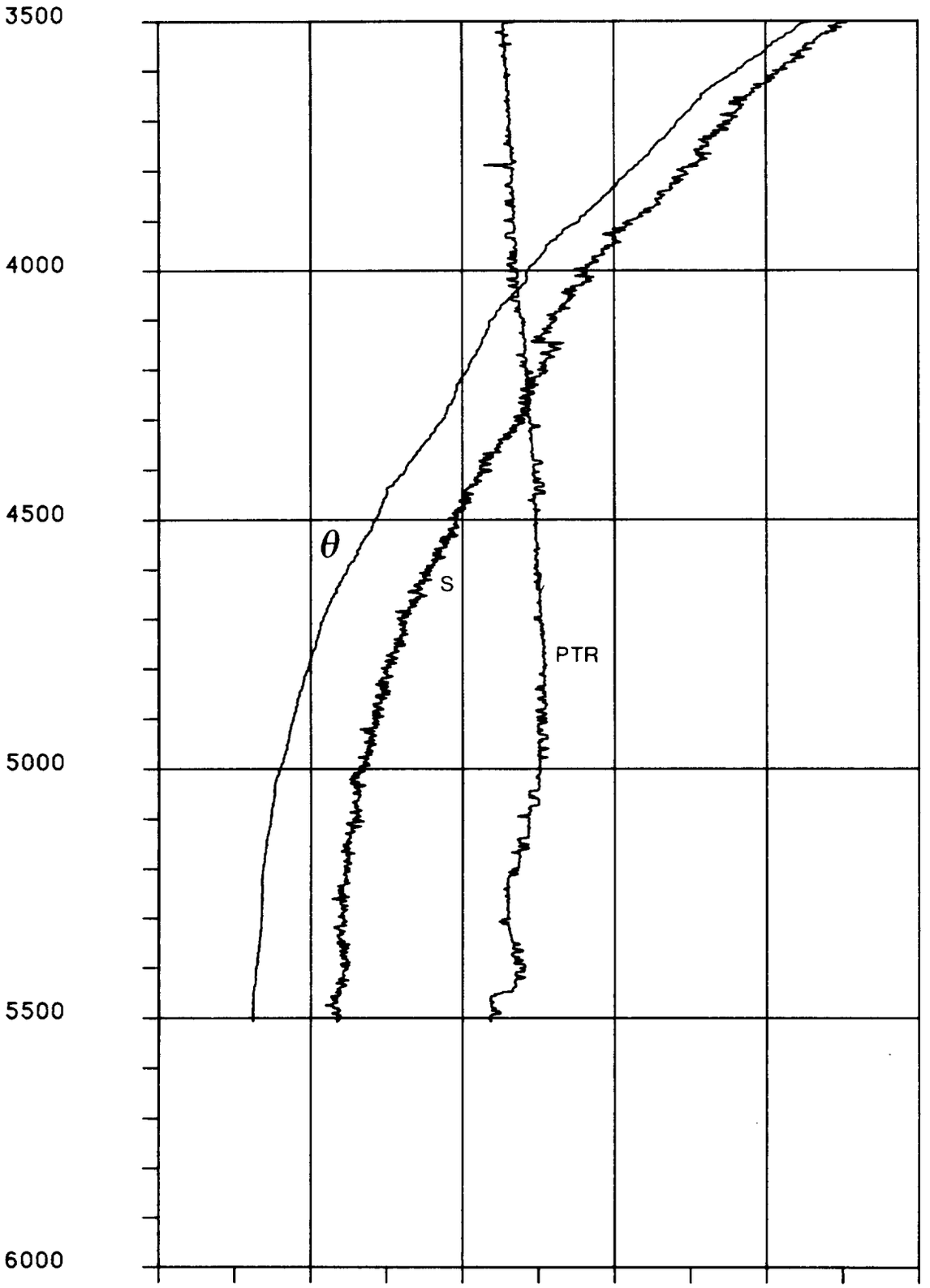
1.90	2.00	2.10	2.20	2.30	2.40	POTEMP
34.88	34.89	34.90	34.91	34.92	34.93	SAL78
67.50	68.00	68.50	69.00	69.50	70.00	POTRAN

OTXY DARWIN 1/85 STN 014 32 00N 27 11W



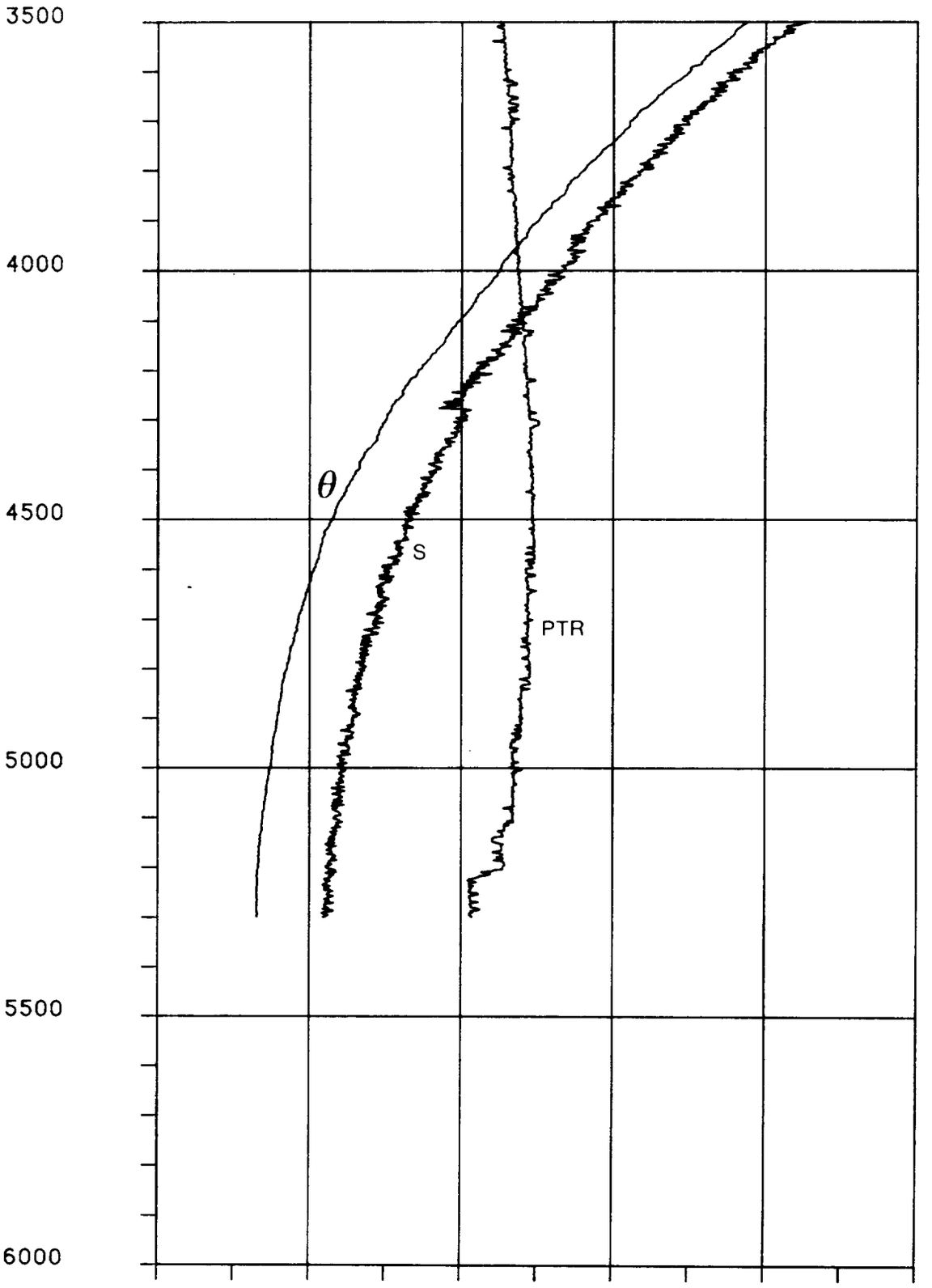
1.90	2.00	2.10	2.20	2.30	2.40	POTEMP
34.88	34.89	34.90	34.91	34.92	34.93	SAL78
67.50	68.00	68.50	69.00	69.50	70.00	POTRAN

LOTXY DARWIN 1/85 STN 015 32 59N 25 16W



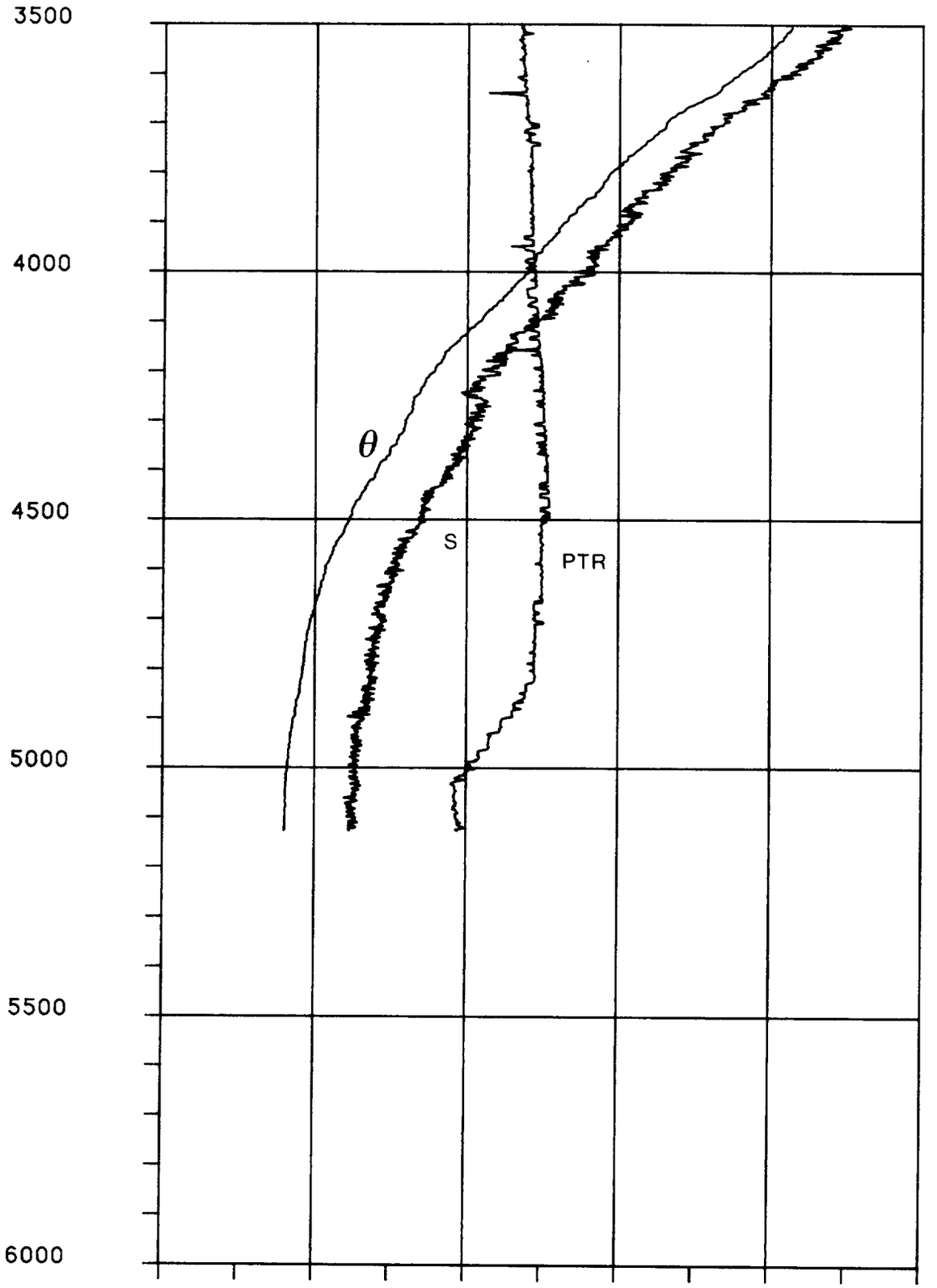
1.90	2.00	2.10	2.20	2.30	2.40	POTEMP
34.88	34.89	34.90	34.91	34.92	34.93	SAL78
67.50	68.00	68.50	69.00	69.50	70.00	POTRAN

OTXY DARWIN 1/85 STN 016 33 00N 22 35W



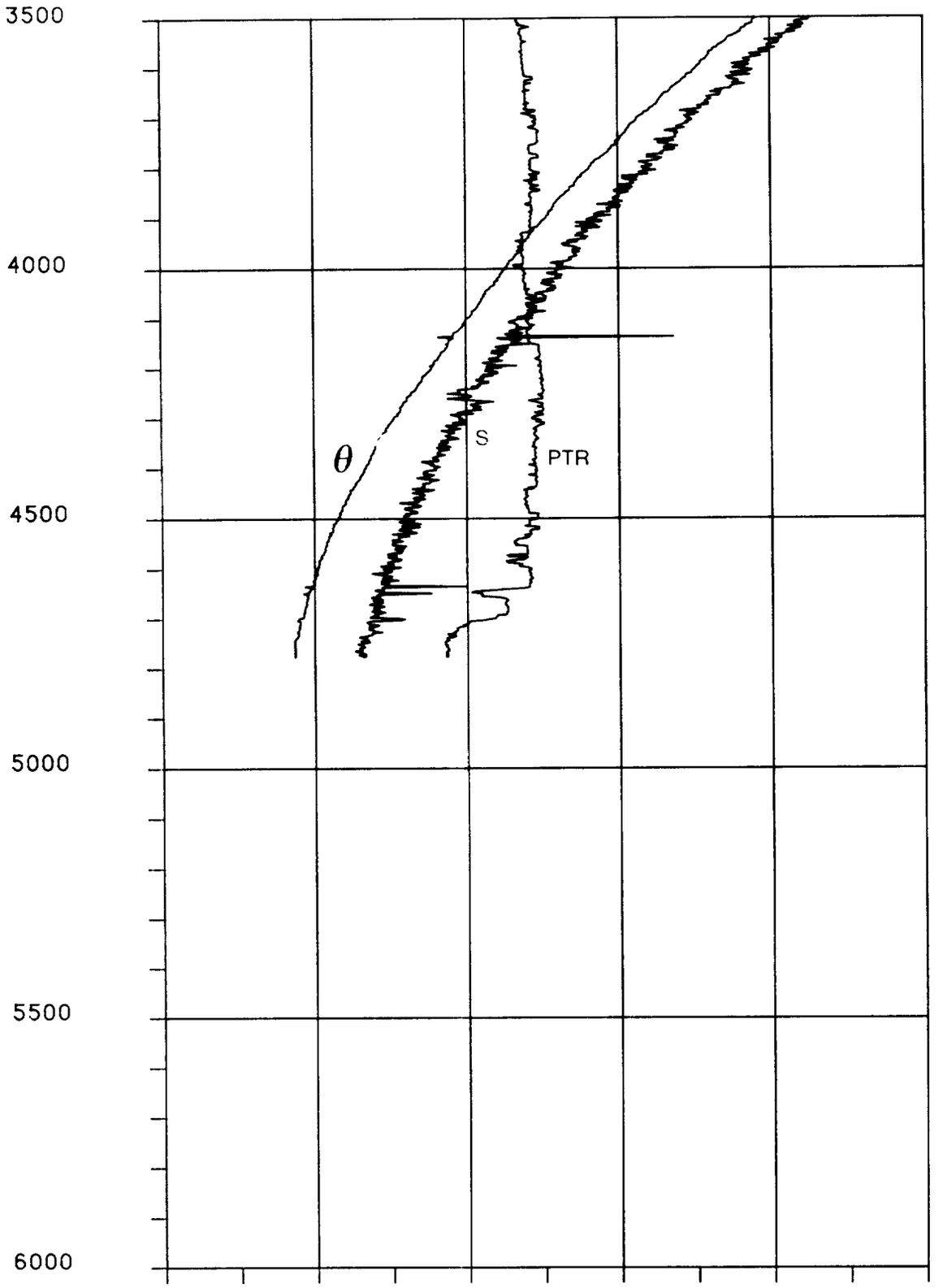
1.90	2.00	2.10	2.20	2.30	2.40	POTEMP
34.88	34.89	34.90	34.91	34.92	34.93	SAL78
67.50	68.00	68.50	69.00	69.50	70.00	POTRAN

'LOTXY DARWIN 1/85 STN 017 31 41N 22 35W



1.90	2.00	2.10	2.20	2.30	2.40	POTEMP
34.88	34.89	34.90	34.91	34.92	34.93	SAL78
67.50	68.00	68.50	69.00	69.50	70.00	POTRAN

OTXY DARWIN 1/85 STN 018 32 15N 21 14W



1.90	2.00	2.10	2.20	2.30	2.40	POTEMP
34.88	34.89	34.90	34.91	34.92	34.93	SAL78
67.50	68.00	68.50	69.00	69.50	70.00	POTRAN

'LOTXY DARWIN 1/85 STN 019 32 20N 20 15W

C.DARWIN 1/85 STATION 001

P-DB	T-DEGC	SAL-PSU	POTRAN	DO-ML/L	POTEMP	SIGMA0	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-C/HR
10.	12.280	35.633	60.44	6.05	12.2791	27.0272	44.0653	0.010	1498.7	10.	0.1025E 03	-9.990
20.	12.280	35.633	60.46	6.03	12.2776	27.0274	44.0655	0.021	1498.9	20.	0.1028E 03	0.209
30.	12.281	35.633	60.46	6.01	12.2769	27.0277	44.0659	0.031	1499.0	30.	0.1030E 03	0.311
50.	12.250	35.629	61.43	6.00	12.2433	27.0312	44.0721	0.051	1499.2	50.	0.1032E 03	0.751
75.	12.218	35.626	61.74	5.98	12.2080	27.0361	44.0797	0.077	1499.5	74.	0.1035E 03	0.795
100.	12.161	35.620	63.17	6.03	12.1473	27.0432	44.0916	0.103	1499.8	99.	0.1035E 03	0.953
125.	12.117	35.617	62.31	6.00	12.1006	27.0493	44.1013	0.129	1500.0	124.	0.1036E 03	0.883
150.	11.953	35.605	64.76	5.88	11.9338	27.0722	44.1373	0.155	1499.9	149.	0.1021E 03	1.720
200.	11.747	35.586	66.30	5.87	11.7212	27.0985	44.1804	0.205	1500.0	198.	0.1009E 03	1.306
250.	11.677	35.579	67.31	5.66	11.6452	27.1076	44.1955	0.256	1500.5	248.	0.1014E 03	0.773
300.	11.438	35.554	68.10	5.42	11.3999	27.1341	44.2418	0.306	1500.5	297.	0.1001E 03	1.330
400.	11.141	35.525	68.18	5.28	11.0901	27.1690	44.3016	0.406	1501.1	396.	0.9919E 02	1.083
500.	10.858	35.503	68.21	5.15	10.7951	27.2047	44.3614	0.505	1501.7	495.	0.9811E 02	1.105
600.	10.448	35.482	68.36	4.78	10.3745	27.2638	44.4547	0.601	1501.9	594.	0.9455E 02	1.423
700.	10.562	35.643	68.38	4.32	10.4748	27.3714	44.5498	0.691	1504.2	693.	0.8707E 02	1.825
800.	10.694	35.812	68.45	4.15	10.5935	27.4822	44.6464	0.774	1506.5	792.	0.7940E 02	1.847
900.	10.429	35.873	68.48	4.18	10.3172	27.5790	44.7637	0.849	1507.3	891.	0.7236E 02	1.789
1000.	9.943	35.858	68.54	4.22	9.8210	27.6539	44.8793	0.919	1507.2	989.	0.6679E 02	1.639
1200.	7.513	35.463	68.63	4.88	7.3868	27.7290	45.1733	1.043	1501.0	1187.	0.5804E 02	1.477
1400.	6.185	35.297	68.71	5.21	6.0507	27.7814	45.3520	1.153	1499.0	1384.	0.5250E 02	1.226
1600.	4.397	34.999	68.74	5.72	4.2626	27.7578	45.5088	1.255	1494.7	1581.	0.5078E 02	0.859
1800.	4.033	34.970	68.76	5.77	3.8847	27.7742	45.5637	1.356	1496.5	1778.	0.4979E 02	0.726
2000.	3.811	34.982	68.80	5.57	3.6463	27.8086	45.6216	1.453	1498.9	1974.	0.4751E 02	0.852
2200.	3.555	34.978	68.79	5.46	3.3746	27.8324	45.6731	1.547	1501.2	2170.	0.4579E 02	0.782
2400.	3.348	34.975	68.76	5.47	3.1516	27.8510	45.7146	1.637	1503.7	2367.	0.4458E 02	0.713
2600.	3.144	34.962	68.75	5.44	2.9313	27.8614	45.7481	1.725	1506.2	2563.	0.4393E 02	0.631
2800.	2.988	34.955	68.72	5.47	2.7577	27.8716	45.7764	1.812	1508.9	2759.	0.4343E 02	0.598
3000.	2.847	34.945	68.79	5.50	2.5993	27.8775	45.7991	1.899	1511.7	2954.	0.4327E 02	0.538
3200.	2.742	34.937	68.86	5.47	2.4760	27.8817	45.8165	1.985	1514.7	3150.	0.4340E 02	0.480
3400.	2.652	34.929	68.88	5.44	2.3664	27.8844	45.8310	2.072	1517.7	3345.	0.4369E 02	0.445
3600.	2.598	34.922	68.93	5.46	2.2923	27.8853	45.8399	2.160	1520.9	3540.	0.4436E 02	0.355
3800.	2.559	34.917	68.94	5.46	2.2322	27.8860	45.8471	2.250	1524.2	3735.	0.4513E 02	0.326
4000.	2.533	34.913	68.94	5.45	2.1834	27.8874	45.8538	2.341	1527.5	3930.	0.4590E 02	0.322

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C.DARWIN 1/85 STATION 002

P-DB	T-DEGC	SAL-PSU	POTRAN	DO-ML/L	POTEMP	SIGMA0	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-C/HR
10.	15.873	36.231	62.56	5.39	15.8713	26.7259	43.4923	0.013	1511.0	10.	0.1311E 03	-9.990
20.	15.872	36.231	62.60	5.39	15.8684	26.7264	43.4930	0.026	1511.1	20.	0.1314E 03	0.394
30.	15.873	36.231	62.60	5.44	15.8681	26.7266	43.4933	0.039	1511.3	30.	0.1318E 03	0.295
50.	15.876	36.231	62.60	5.47	15.8684	26.7266	43.4932	0.066	1511.7	50.	0.1325E 03	-0.110
75.	15.878	36.230	62.61	5.54	15.8666	26.7262	43.4930	0.099	1512.1	74.	0.1334E 03	-0.197
100.	15.883	36.230	62.58	5.63	15.8668	26.7259	43.4926	0.132	1512.5	99.	0.1343E 03	-0.222
125.	15.882	36.230	62.58	5.66	15.8624	26.7267	43.4938	0.166	1512.9	124.	0.1351E 03	0.331
150.	15.877	36.228	62.60	5.66	15.8528	26.7273	43.4951	0.200	1513.3	149.	0.1359E 03	0.280
200.	13.918	35.877	67.29	5.64	13.8885	26.8892	43.8022	0.265	1507.5	198.	0.1216E 03	3.264
250.	13.308	35.789	67.82	5.51	13.2731	26.9498	43.9097	0.325	1506.3	248.	0.1171E 03	2.002
300.	12.851	35.726	68.04	5.32	12.8098	26.9944	43.9902	0.382	1505.5	298.	0.1141E 03	1.728
400.	12.103	35.628	68.17	5.30	12.0498	27.0684	44.1240	0.494	1504.5	397.	0.1095E 03	1.585
500.	11.436	35.557	68.31	5.20	11.3717	27.1417	44.2515	0.601	1503.8	496.	0.1046E 03	1.587
600.	10.994	35.538	68.41	5.01	10.9181	27.2103	44.3563	0.704	1503.9	595.	0.1003E 03	1.528
700.	10.732	35.595	68.52	4.72	10.6446	27.3039	44.4700	0.801	1504.7	694.	0.9364E 02	1.751
800.	10.926	35.789	68.60	4.54	10.8243	27.4227	44.5692	0.891	1507.3	793.	0.8535E 02	1.905
900.	10.986	35.946	68.64	4.52	10.8702	27.5367	44.6753	0.972	1509.3	891.	0.7736E 02	1.884
1000.	10.657	35.970	68.67	4.56	10.5307	27.6167	44.7816	1.047	1509.9	990.	0.7177E 02	1.653
1200.	10.207	36.024	68.69	4.64	10.0577	27.7427	44.9442	1.181	1511.6	1188.	0.6388E 02	1.469
1400.	8.248	35.712	68.80	5.19	8.0914	27.8198	45.1951	1.301	1507.4	1385.	0.5556E 02	1.466
1600.	6.195	35.369	68.85	5.78	6.0389	27.8392	45.4088	1.407	1502.4	1582.	0.5020E 02	1.226
1800.	5.218	35.223	68.91	5.94	5.0530	27.8464	45.5135	1.506	1501.7	1779.	0.4838E 02	0.890
2000.	4.448	35.113	68.93	6.05	4.2738	27.8473	45.5937	1.601	1501.8	1976.	0.4711E 02	0.793
2200.	3.910	35.044	68.99	6.06	3.7233	27.8497	45.6530	1.694	1502.8	2172.	0.4614E 02	0.724
2400.	3.586	35.011	69.01	5.98	3.3854	27.8576	45.6961	1.786	1504.8	2369.	0.4540E 02	0.673
2600.	3.262	34.979	69.01	5.96	3.0469	27.8641	45.7383	1.875	1506.7	2565.	0.4444E 02	0.681
2800.	3.060	34.962	69.02	5.89	2.8289	27.8709	45.7681	1.964	1509.3	2761.	0.4399E 02	0.598
3000.	2.921	34.952	69.02	5.80	2.6721	27.8766	45.7904	2.051	1512.1	2957.	0.4390E 02	0.532
3200.	2.803	34.942	69.06	5.73	2.5352	27.8806	45.8091	2.139	1515.0	3152.	0.4398E 02	0.496
3400.	2.719	34.933	69.05	5.68	2.4322	27.8827	45.8222	2.228	1518.0	3348.	0.4440E 02	0.423
3600.	2.669	34.927	69.10	5.65	2.3610	27.8839	45.8311	2.317	1521.2	3543.	0.4510E 02	0.356
3800.	2.637	34.924	69.09	5.63	2.3079	27.8854	45.8383	2.408	1524.5	3738.	0.4590E 02	0.326
4000.	2.611	34.919	69.10	5.62	2.2598	27.8859	45.8440	2.501	1527.8	3933.	0.4680E 02	0.298
4200.	2.582	34.914	69.09	5.56	2.2076	27.8862	45.8500	2.595	1531.1	4128.	0.4764E 02	0.310
4400.	2.563	34.910	69.07	5.58	2.1656	27.8862	45.8546	2.691	1534.5	4323.	0.4859E 02	0.278
4500.	2.551	34.908	69.09	5.61	2.1424	27.8866	45.8576	2.740	1536.2	4420.	0.4899E 02	0.321
4600.	2.511	34.903	69.09	5.61	2.0914	27.8866	45.8631	2.789	1537.7	4517.	0.4911E 02	0.443
4700.	2.493	34.900	69.04	5.65	2.0617	27.8863	45.8661	2.839	1539.4	4614.	0.4948E 02	0.333
4800.	2.494	34.899	69.07	5.68	2.0496	27.8866	45.8676	2.888	1541.1	4711.	0.5000E 02	0.235
4900.	2.503	34.899	69.08	5.65	2.0457	27.8872	45.8686	2.939	1542.9	4808.	0.5059E 02	0.185
5000.	2.515	34.898	69.08	5.67	2.0448	27.8867	45.8683	2.989	1544.7	4905.	0.5131E 02	-0.102
5100.	2.527	34.898	69.05	5.67	2.0439	27.8865	45.8682	3.041	1546.5	5002.	0.5201E 02	-0.048
5200.	2.540	34.898	69.06	5.67	2.0430	27.8862	45.8681	3.094	1548.3	5099.	0.5272E 02	-0.053
5300.	2.553	34.898	69.08	5.68	2.0431	27.8863	45.8681	3.147	1550.1	5196.	0.5342E 02	0.045

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C.DARWIN 1/85 STATION 003

P-DB	T-DEGC	SAL-PSU	POTRAN	DO-ML/L	POTEMP	SIGMA0	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-C/HR
10.	15.700	36.181	59.92	5.47	15.6980	26.7264	43.5058	0.013	1510.4	10.	0.1311E 03	-9.990
20.	15.701	36.181	60.01	5.48	15.6975	26.7268	43.5062	0.026	1510.6	20.	0.1314E 03	0.348
30.	15.700	36.181	60.00	5.48	15.6952	26.7274	43.5070	0.039	1510.7	30.	0.1317E 03	0.435
50.	15.683	36.180	61.90	5.40	15.6754	26.7313	43.5122	0.066	1511.0	50.	0.1320E 03	0.785
75.	15.685	36.180	62.18	5.40	15.6731	26.7314	43.5124	0.099	1511.4	74.	0.1329E 03	0.076
100.	15.689	36.181	62.23	5.41	15.6733	26.7320	43.5131	0.132	1511.8	99.	0.1337E 03	0.289
125.	15.691	36.180	62.37	5.39	15.6717	26.7319	43.5131	0.166	1512.3	124.	0.1345E 03	-0.088
150.	15.689	36.179	62.51	5.39	15.6650	26.7325	43.5142	0.199	1512.7	149.	0.1353E 03	0.273
200.	13.994	35.889	67.36	5.20	13.9654	26.8828	43.7900	0.264	1507.8	198.	0.1222E 03	3.140
250.	13.369	35.798	67.75	5.27	13.3336	26.9440	43.8993	0.324	1506.5	248.	0.1177E 03	2.013
300.	12.731	35.709	68.02	5.25	12.6897	27.0051	44.0103	0.382	1505.1	298.	0.1130E 03	2.023
400.	11.933	35.609	68.18	5.05	11.8801	27.0862	44.1553	0.492	1503.9	397.	0.1076E 03	1.658
500.	11.291	35.544	68.37	4.95	11.2273	27.1577	44.2792	0.597	1503.3	496.	0.1030E 03	1.567
600.	10.917	35.556	68.46	4.65	10.8414	27.2378	44.3893	0.698	1503.6	595.	0.9759E 02	1.633
700.	10.985	35.706	68.56	4.38	10.8966	27.3453	44.4883	0.792	1505.7	694.	0.9015E 02	1.830
800.	11.413	35.951	68.60	4.25	11.3085	27.4602	44.5643	0.878	1509.2	793.	0.8266E 02	1.841
900.	11.384	36.041	68.62	4.23	11.2654	27.5380	44.6429	0.958	1510.8	891.	0.7798E 02	1.569
1000.	11.095	36.067	68.66	4.25	10.9648	27.6138	44.7416	1.033	1511.5	990.	0.7295E 02	1.605
1200.	10.405	36.070	68.72	4.37	10.2539	27.7443	44.9287	1.169	1512.4	1188.	0.6424E 02	1.523
1400.	8.414	35.736	68.78	4.95	8.2560	27.8132	45.1735	1.290	1508.1	1385.	0.5669E 02	1.425
1600.	6.219	35.376	68.88	5.63	6.0622	27.8419	45.4092	1.396	1502.5	1582.	0.5004E 02	1.315
1800.	5.240	35.227	68.93	5.91	5.0743	27.8465	45.5115	1.494	1501.8	1779.	0.4846E 02	0.867
2000.	4.420	35.107	68.97	6.04	4.2456	27.8456	45.5950	1.590	1501.6	1976.	0.4712E 02	0.800
2200.	3.971	35.051	69.00	6.07	3.7837	27.8497	45.6468	1.683	1503.1	2172.	0.4647E 02	0.687
2400.	3.582	35.012	69.02	6.04	3.3815	27.8582	45.6971	1.775	1504.8	2369.	0.4532E 02	0.724
2600.	3.240	34.979	69.04	6.00	3.0257	27.8659	45.7423	1.864	1506.7	2565.	0.4415E 02	0.707
2800.	3.064	34.965	69.03	5.94	2.8322	27.8725	45.7693	1.952	1509.3	2761.	0.4388E 02	0.571
3000.	2.909	34.951	69.04	5.88	2.6603	27.8770	45.7921	2.039	1512.0	2957.	0.4377E 02	0.534
3200.	2.807	34.943	69.06	5.79	2.5397	27.8811	45.8091	2.127	1515.0	3152.	0.4397E 02	0.474
3400.	2.708	34.934	69.08	5.74	2.4213	27.8837	45.8244	2.215	1518.0	3348.	0.4421E 02	0.457
3600.	2.639	34.925	69.07	5.68	2.3321	27.8847	45.8350	2.304	1521.1	3543.	0.4477E 02	0.387
3800.	2.591	34.919	69.09	5.65	2.2626	27.8858	45.8436	2.394	1524.3	3738.	0.4543E 02	0.357
4000.	2.562	34.915	69.07	5.64	2.2119	27.8866	45.8500	2.486	1527.6	3933.	0.4625E 02	0.313
4200.	2.483	34.906	69.09	5.65	2.1115	27.8871	45.8614	2.579	1530.7	4128.	0.4655E 02	0.430
4400.	2.467	34.902	69.08	5.68	2.0725	27.8872	45.8657	2.673	1534.1	4323.	0.4749E 02	0.270
4500.	2.475	34.901	69.08	5.67	2.0680	27.8871	45.8661	2.720	1535.9	4420.	0.4812E 02	0.118
4600.	2.484	34.901	69.08	5.66	2.0652	27.8868	45.8662	2.769	1537.6	4517.	0.4879E 02	0.057

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C.DARWIN 1/85 STATION 004

P-DB	T-DEGC	SAL-PSU	POTRAN	DO-ML/L	POTEMP	SIGMAO	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-C/HR
10.	15.574	36.161	61.51	5.27	15.5729	26.7394	43.5278	0.013	1510.0	10.	0.1298E 03	-9.990
20.	15.576	36.160	61.47	5.28	15.5728	26.7391	43.5275	0.026	1510.1	20.	0.1302E 03	-0.323
30.	15.576	36.159	61.32	5.24	15.5709	26.7386	43.5271	0.039	1510.3	30.	0.1306E 03	-0.388
50.	15.605	36.164	61.53	5.30	15.5976	26.7367	43.5233	0.065	1510.7	50.	0.1315E 03	-0.553
75.	15.610	36.164	61.49	5.23	15.5982	26.7367	43.5232	0.098	1511.2	74.	0.1323E 03	0.
100.	15.604	36.163	61.48	5.33	15.5885	26.7378	43.5250	0.131	1511.6	99.	0.1331E 03	0.372
125.	15.592	36.160	61.28	5.26	15.5722	26.7389	43.5274	0.165	1511.9	124.	0.1338E 03	0.385
150.	15.642	36.170	61.44	5.37	15.6188	26.7364	43.5214	0.198	1512.5	149.	0.1350E 03	-0.576
200.	13.980	35.900	67.55	5.00	13.9509	26.8943	43.8023	0.262	1507.8	198.	0.1211E 03	3.215
250.	13.193	35.779	67.87	5.09	13.1575	26.9653	43.9340	0.321	1505.9	248.	0.1156E 03	2.172
300.	12.746	35.715	67.98	5.10	12.7048	27.0074	44.0112	0.378	1505.1	298.	0.1128E 03	1.679
400.	11.999	35.621	68.04	5.04	11.9460	27.0825	44.1462	0.488	1504.2	397.	0.1080E 03	1.597
500.	11.347	35.572	68.23	4.84	11.2833	27.1694	44.2857	0.593	1503.5	496.	0.1019E 03	1.715
600.	10.990	35.608	68.37	4.57	10.9142	27.2656	44.4099	0.691	1504.0	595.	0.9508E 02	1.779
700.	11.508	35.895	68.46	4.32	11.4159	27.3965	44.4937	0.782	1507.8	694.	0.8612E 02	1.970
800.	12.102	36.160	68.50	4.29	11.9937	27.4927	44.5383	0.866	1511.8	793.	0.8076E 02	1.648
900.	12.052	36.217	68.52	4.27	11.9291	27.5490	44.5980	0.945	1513.3	891.	0.7819E 02	1.343
1000.	11.727	36.225	68.54	4.27	11.5922	27.6196	44.6942	1.021	1513.9	990.	0.7371E 02	1.559
1200.	11.257	36.255	68.61	4.28	11.0984	27.7355	44.8477	1.161	1515.6	1188.	0.6718E 02	1.415
1400.	9.916	36.045	68.65	4.60	9.7430	27.8132	45.0398	1.290	1514.0	1385.	0.6125E 02	1.357
1600.	7.194	35.544	68.72	5.41	7.0253	27.8444	45.3187	1.406	1506.5	1582.	0.5342E 02	1.421
1800.	5.719	35.298	68.83	5.76	5.5468	27.8460	45.4638	1.508	1503.8	1779.	0.5055E 02	1.012
2000.	4.758	35.157	68.85	5.97	4.5785	27.8481	45.5633	1.607	1503.1	1976.	0.4853E 02	0.888
2200.	3.961	35.052	68.91	6.05	3.7736	27.8515	45.6495	1.703	1503.0	2172.	0.4625E 02	0.873
2400.	3.519	35.004	68.93	6.03	3.3195	27.8583	45.7038	1.794	1504.5	2369.	0.4494E 02	0.742
2600.	3.247	34.980	68.95	5.94	3.0320	27.8665	45.7421	1.883	1506.7	2565.	0.4414E 02	0.659
2800.	3.034	34.962	68.94	5.90	2.8027	27.8732	45.7731	1.971	1509.1	2761.	0.4360E 02	0.609
3000.	2.901	34.950	68.96	5.78	2.6522	27.8771	45.7931	2.058	1512.0	2957.	0.4370E 02	0.499
3200.	2.792	34.942	68.94	5.73	2.5243	27.8813	45.8109	2.145	1514.9	3152.	0.4383E 02	0.485
3400.	2.722	34.935	68.98	5.72	2.4352	27.8835	45.8226	2.233	1518.0	3348.	0.4436E 02	0.400
3600.	2.656	34.927	69.01	5.63	2.3486	27.8844	45.8330	2.323	1521.1	3543.	0.4494E 02	0.382
3800.	2.599	34.920	68.98	5.66	2.2706	27.8858	45.8427	2.413	1524.3	3738.	0.4551E 02	0.381
4000.	2.545	34.914	68.99	5.66	2.1953	27.8868	45.8519	2.505	1527.5	3933.	0.4608E 02	0.376
4200.	2.435	34.901	69.00	5.67	2.0652	27.8869	45.8663	2.597	1530.5	4128.	0.4609E 02	0.482
4400.	2.402	34.896	68.95	5.66	2.0094	27.8875	45.8730	2.690	1533.8	4323.	0.4677E 02	0.336
4500.	2.410	34.896	68.94	5.64	2.0057	27.8876	45.8735	2.737	1535.6	4420.	0.4738E 02	0.128

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C.DARWIN 1/85 STATION 005

P-DB	T-DEGC	SAL-PSU	POTRAN	DO-ML/L	POTEMP	SIGMA0	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-C/HR
10.	15.508	36.150	61.36	5.58	15.5066	26.7465	43.5396	0.013	1509.8	10.	0.1292E 03	-9.990
20.	15.508	36.150	61.54	5.58	15.5052	26.7469	43.5401	0.026	1509.9	20.	0.1295E 03	0.355
30.	15.510	36.151	61.60	5.57	15.5056	26.7471	43.5402	0.039	1510.1	30.	0.1298E 03	0.231
50.	15.514	36.151	61.65	5.53	15.5063	26.7472	43.5403	0.065	1510.4	50.	0.1305E 03	0.139
75.	15.518	36.151	61.65	5.58	15.5061	26.7473	43.5404	0.098	1510.9	74.	0.1313E 03	0.076
100.	15.520	36.151	61.77	5.57	15.5047	26.7476	43.5408	0.130	1511.3	99.	0.1322E 03	0.197
125.	15.526	36.151	61.77	5.54	15.5062	26.7472	43.5403	0.164	1511.7	124.	0.1330E 03	-0.211
150.	15.089	36.078	64.30	5.20	15.0662	26.7898	43.6149	0.197	1510.7	149.	0.1298E 03	2.351
200.	13.827	35.879	67.56	5.08	13.7977	26.9098	43.8294	0.259	1507.2	198.	0.1196E 03	2.804
250.	13.119	35.767	67.87	5.15	13.0837	26.9708	43.9452	0.317	1505.6	248.	0.1150E 03	2.014
300.	12.704	35.710	67.89	5.14	12.6626	27.0119	44.0190	0.374	1505.0	298.	0.1124E 03	1.657
400.	11.869	35.612	68.05	4.96	11.8164	27.1005	44.1744	0.483	1503.7	397.	0.1062E 03	1.731
500.	11.258	35.566	68.25	4.81	11.1939	27.1810	44.3045	0.586	1503.2	496.	0.1008E 03	1.652
600.	11.172	35.684	68.38	4.52	11.0950	27.2917	44.4197	0.683	1504.7	595.	0.9286E 02	1.875
700.	11.786	35.987	68.48	4.37	11.6925	27.4155	44.4888	0.772	1508.8	694.	0.8475E 02	1.901
800.	12.348	36.236	68.47	4.38	12.2383	27.5037	44.5287	0.854	1512.7	793.	0.8013E 02	1.577
900.	12.165	36.264	68.49	4.33	12.0412	27.5637	44.6030	0.933	1513.8	891.	0.7702E 02	1.413
1000.	11.946	36.289	68.54	4.31	11.8095	27.6281	44.6843	1.008	1514.7	990.	0.7337E 02	1.472
1200.	11.831	36.397	68.55	4.29	11.6676	27.7391	44.8033	1.149	1517.8	1188.	0.6825E 02	1.338
1400.	10.591	36.188	68.63	4.53	10.4109	27.8082	44.9767	1.282	1516.5	1385.	0.6370E 02	1.285
1600.	7.917	35.684	68.72	5.21	7.7402	27.8506	45.2574	1.402	1509.5	1582.	0.5545E 02	1.462
1800.	5.722	35.302	68.81	5.79	5.5501	27.8484	45.4658	1.506	1503.8	1779.	0.5035E 02	1.196
2000.	4.836	35.167	68.85	5.91	4.6557	27.8479	45.5552	1.605	1503.4	1976.	0.4892E 02	0.830
2200.	4.066	35.066	68.89	6.01	3.8776	27.8513	45.6385	1.701	1503.5	2172.	0.4684E 02	0.858
2400.	3.686	35.022	68.93	5.96	3.4832	27.8564	45.6847	1.794	1505.2	2369.	0.4609E 02	0.682
2600.	3.298	34.982	68.94	5.97	3.0825	27.8633	45.7337	1.885	1506.9	2565.	0.4475E 02	0.731
2800.	3.088	34.966	68.94	5.85	2.8555	27.8715	45.7658	1.974	1509.4	2761.	0.4413E 02	0.624
3000.	2.931	34.954	68.95	5.80	2.6818	27.8774	45.7902	2.062	1512.1	2957.	0.4390E 02	0.555
3200.	2.811	34.943	68.98	5.74	2.5431	27.8806	45.8082	2.150	1515.0	3152.	0.4404E 02	0.485
3400.	2.712	34.933	69.00	5.68	2.4253	27.8832	45.8234	2.238	1518.0	3348.	0.4430E 02	0.455
3600.	2.656	34.927	69.02	5.64	2.3487	27.8846	45.8331	2.327	1521.1	3543.	0.4493E 02	0.370
3800.	2.598	34.920	69.04	5.63	2.2701	27.8852	45.8423	2.418	1524.3	3738.	0.4555E 02	0.368
4000.	2.532	34.911	69.02	5.64	2.1828	27.8856	45.8521	2.509	1527.5	3933.	0.4606E 02	0.390
4200.	2.494	34.906	69.05	5.65	2.1222	27.8869	45.8600	2.602	1530.8	4128.	0.4669E 02	0.356
4400.	2.434	34.898	69.03	5.64	2.0405	27.8872	45.8692	2.696	1533.9	4323.	0.4714E 02	0.394
4500.	2.435	34.898	69.02	5.66	2.0299	27.8878	45.8710	2.743	1535.7	4420.	0.4764E 02	0.245
4600.	2.436	34.897	69.01	5.67	2.0189	27.8877	45.8721	2.791	1537.4	4517.	0.4819E 02	0.204
4700.	2.442	34.896	69.01	5.65	2.0120	27.8875	45.8726	2.840	1539.2	4614.	0.4880E 02	0.138
4800.	2.451	34.896	69.02	5.62	2.0087	27.8874	45.8729	2.889	1541.0	4712.	0.4945E 02	0.109
4900.	2.460	34.895	68.99	5.65	2.0048	27.8874	45.8734	2.938	1542.7	4809.	0.5008E 02	0.127

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C.DARWIN 1/85 STATION 006

P-DB	T-DEGC	SAL-PSU	POTRAN	DO-ML/L	POTEMP	SIGMA0	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-C/HR
10.	18.355	36.677	60.03	5.28	18.3537	26.4697	43.0654	0.016	1518.9	10.	0.1555E 03	-9.990
20.	18.357	36.678	61.33	5.32	18.3533	26.4703	43.0659	0.031	1519.0	20.	0.1558E 03	0.421
30.	18.355	36.679	61.38	5.36	18.3501	26.4720	43.0678	0.047	1519.2	30.	0.1560E 03	0.728
50.	18.342	36.680	62.57	5.34	18.3335	26.4767	43.0735	0.078	1519.5	50.	0.1564E 03	0.862
75.	18.346	36.680	63.01	5.34	18.3328	26.4769	43.0738	0.117	1519.9	74.	0.1573E 03	0.171
100.	18.347	36.679	63.23	5.34	18.3297	26.4775	43.0746	0.157	1520.4	99.	0.1583E 03	0.273
125.	18.342	36.678	63.54	5.26	18.3200	26.4785	43.0762	0.196	1520.8	124.	0.1591E 03	0.359
150.	18.340	36.675	63.44	5.34	18.3132	26.4786	43.0768	0.236	1521.2	149.	0.1601E 03	0.108
200.	17.049	36.425	67.63	5.03	17.0153	26.6060	43.2923	0.313	1517.9	199.	0.1495E 03	2.882
250.	16.382	36.297	67.88	5.05	16.3417	26.6669	43.4004	0.386	1516.6	248.	0.1453E 03	2.006
300.	15.342	36.092	68.02	4.99	15.2956	26.7494	43.5583	0.458	1514.0	298.	0.1387E 03	2.358
400.	13.974	35.881	68.13	4.96	13.9150	26.8867	43.7978	0.592	1511.0	397.	0.1281E 03	2.154
500.	12.578	35.692	68.28	4.88	12.5092	27.0283	44.0474	0.714	1507.9	496.	0.1165E 03	2.209
600.	11.773	35.595	68.42	4.88	11.6935	27.1106	44.1944	0.827	1506.7	595.	0.1106E 03	1.702
700.	10.935	35.519	68.52	4.69	10.8462	27.2082	44.3604	0.934	1505.3	694.	0.1029E 03	1.858
800.	10.254	35.493	68.61	4.49	10.1559	27.3104	44.5186	1.032	1504.5	793.	0.9470E 02	1.891
900.	9.505	35.495	68.67	4.42	9.3996	27.4407	44.7110	1.121	1503.5	892.	0.8346E 02	2.134
1000.	8.928	35.532	68.71	4.52	8.8138	27.5653	44.8838	1.199	1503.1	991.	0.7281E 02	2.078
1200.	7.836	35.500	68.79	4.86	7.7074	27.7108	45.1257	1.331	1502.3	1188.	0.6060E 02	1.654
1400.	6.376	35.340	68.87	5.22	6.2394	27.7908	45.3427	1.443	1499.8	1386.	0.5226E 02	1.413
1600.	5.446	35.230	68.89	5.66	5.2985	27.8224	45.4658	1.544	1499.3	1583.	0.4892E 02	1.031
1800.	4.832	35.166	68.95	5.73	4.6723	27.8448	45.5505	1.639	1500.0	1780.	0.4685E 02	0.887
2000.	4.276	35.102	68.97	5.71	4.1035	27.8564	45.6200	1.732	1501.0	1977.	0.4544E 02	0.795
2200.	3.820	35.050	69.00	5.74	3.6352	27.8640	45.6760	1.821	1502.4	2173.	0.4436E 02	0.731
2400.	3.468	35.012	69.03	5.76	3.2695	27.8695	45.7198	1.909	1504.3	2370.	0.4362E 02	0.667
2600.	3.164	34.981	69.04	5.76	2.9512	27.8746	45.7586	1.996	1506.3	2566.	0.4287E 02	0.649
2800.	2.988	34.964	69.03	5.75	2.7578	27.8787	45.7832	2.081	1509.0	2762.	0.4279E 02	0.537
3000.	2.824	34.948	69.01	5.66	2.5772	27.8815	45.8054	2.167	1511.6	2958.	0.4274E 02	0.519
3200.	2.720	34.937	69.03	5.62	2.4543	27.8838	45.8208	2.253	1514.6	3154.	0.4304E 02	0.447
3400.	2.635	34.928	69.05	5.64	2.3497	27.8851	45.8335	2.339	1517.6	3349.	0.4348E 02	0.412
3600.	2.571	34.919	69.06	5.63	2.2653	27.8851	45.8426	2.427	1520.8	3545.	0.4414E 02	0.357
3800.	2.527	34.913	69.08	5.58	2.2006	27.8859	45.8505	2.515	1524.0	3740.	0.4484E 02	0.341
4000.	2.490	34.908	69.07	5.58	2.1416	27.8868	45.8578	2.606	1527.3	3935.	0.4554E 02	0.336
4200.	2.463	34.905	69.09	5.60	2.0926	27.8880	45.8643	2.698	1530.6	4130.	0.4628E 02	0.324
4400.	2.449	34.902	69.10	5.62	2.0548	27.8885	45.8689	2.791	1534.0	4325.	0.4718E 02	0.278
4500.	2.435	34.899	69.10	5.61	2.0293	27.8888	45.8720	2.839	1535.7	4422.	0.4754E 02	0.329
4600.	2.429	34.898	69.09	5.63	2.0113	27.8888	45.8740	2.886	1537.4	4519.	0.4801E 02	0.262
4700.	2.420	34.895	69.10	5.63	1.9905	27.8883	45.8758	2.935	1539.1	4617.	0.4848E 02	0.263
4800.	2.421	34.894	69.10	5.64	1.9797	27.8886	45.8773	2.983	1540.8	4714.	0.4900E 02	0.229
4900.	2.424	34.893	69.08	5.64	1.9698	27.8882	45.8780	3.033	1542.6	4811.	0.4959E 02	0.170
5000.	2.429	34.892	69.04	5.71	1.9615	27.8883	45.8790	3.082	1544.3	4908.	0.5015E 02	0.199
5100.	2.439	34.892	68.97	5.63	1.9589	27.8882	45.8791	3.133	1546.1	5005.	0.5081E 02	0.078

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C.DARWIN 1/85 STATION 007

P-DB	T-DEGC	SAL-PSU	POTRAN	DO-ML/L	POTEMP	SIGMA0	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-C/HR
10.	18.052	36.610	63.59	5.11	18.0505	26.4947	43.1108	0.015	1517.9	10.	0.1531E 03	-9.990
20.	18.055	36.610	63.61	5.14	18.0512	26.4943	43.1103	0.031	1518.1	20.	0.1535E 03	-0.365
30.	18.053	36.610	63.63	5.13	18.0482	26.4950	43.1112	0.046	1518.3	30.	0.1538E 03	0.477
50.	18.058	36.609	63.83	5.08	18.0496	26.4939	43.1100	0.077	1518.6	50.	0.1547E 03	-0.416
75.	18.062	36.609	63.68	5.16	18.0489	26.4939	43.1101	0.116	1519.0	74.	0.1557E 03	0.
100.	18.059	36.607	64.57	5.17	18.0421	26.4944	43.1110	0.155	1519.4	99.	0.1566E 03	0.257
125.	18.061	36.607	64.83	5.17	18.0392	26.4949	43.1117	0.194	1519.9	124.	0.1575E 03	0.257
150.	18.059	36.605	64.88	5.15	18.0326	26.4952	43.1126	0.233	1520.3	149.	0.1584E 03	0.220
200.	16.830	36.344	67.19	4.89	16.7964	26.5958	43.2983	0.312	1517.2	199.	0.1504E 03	2.569
250.	16.142	36.230	67.73	4.94	16.1015	26.6714	43.4225	0.386	1515.8	248.	0.1448E 03	2.227
300.	15.362	36.092	67.84	4.99	15.3152	26.7449	43.5526	0.457	1514.0	298.	0.1391E 03	2.216
400.	14.052	35.886	68.02	5.03	13.9935	26.8740	43.7793	0.591	1511.3	397.	0.1293E 03	2.089
500.	12.791	35.712	68.10	4.98	12.7216	27.0012	44.0040	0.716	1508.6	496.	0.1192E 03	2.094
600.	11.723	35.587	68.29	4.86	11.6441	27.1137	44.2015	0.830	1506.5	595.	0.1102E 03	1.985
700.	10.846	35.534	68.41	4.48	10.7584	27.2358	44.3945	0.936	1505.0	694.	0.1002E 03	2.060
800.	10.030	35.503	68.52	4.34	9.9338	27.3566	44.5827	1.031	1503.7	793.	0.9000E 02	2.058
900.	9.481	35.521	68.58	4.41	9.3759	27.4653	44.7368	1.116	1503.4	892.	0.8112E 02	1.937
1000.	8.812	35.520	68.63	4.54	8.6987	27.5746	44.9032	1.192	1502.6	991.	0.7169E 02	1.976
1200.	7.987	35.541	68.67	4.82	7.8565	27.7212	45.1219	1.322	1502.9	1188.	0.6005E 02	1.626
1400.	6.548	35.382	68.76	5.31	6.4099	27.8007	45.3356	1.433	1500.5	1386.	0.5191E 02	1.405
1600.	5.392	35.231	68.84	5.52	5.2457	27.8291	45.4776	1.532	1499.1	1583.	0.4809E 02	1.072
1800.	4.710	35.152	68.83	5.65	4.5515	27.8476	45.5656	1.627	1499.5	1780.	0.4606E 02	0.881
2000.	4.159	35.088	68.89	5.65	3.9886	27.8578	45.6333	1.717	1500.5	1977.	0.4473E 02	0.779
2200.	3.767	35.044	68.92	5.69	3.5829	27.8640	45.6815	1.806	1502.2	2173.	0.4407E 02	0.675
2400.	3.457	35.010	68.94	5.70	3.2581	27.8688	45.7204	1.894	1504.2	2370.	0.4362E 02	0.628
2600.	3.201	34.984	68.96	5.67	2.9874	27.8735	45.7537	1.981	1506.5	2566.	0.4321E 02	0.603
2800.	2.973	34.961	68.96	5.66	2.7433	27.8772	45.7833	2.067	1508.9	2762.	0.4283E 02	0.584
3000.	2.833	34.948	68.98	5.63	2.5857	27.8808	45.8038	2.152	1511.7	2958.	0.4287E 02	0.504
3200.	2.712	34.936	68.98	5.63	2.4465	27.8831	45.8210	2.238	1514.6	3154.	0.4304E 02	0.471
3400.	2.624	34.926	69.00	5.61	2.3390	27.8844	45.8340	2.325	1517.6	3349.	0.4345E 02	0.417
3600.	2.566	34.919	69.02	5.63	2.2605	27.8857	45.8438	2.412	1520.8	3545.	0.4404E 02	0.372
3800.	2.524	34.913	69.04	5.62	2.1973	27.8862	45.8511	2.501	1524.0	3740.	0.4478E 02	0.330
4000.	2.492	34.908	68.97	5.64	2.1434	27.8867	45.8575	2.591	1527.3	3935.	0.4556E 02	0.314
4200.	2.465	34.905	69.05	5.63	2.0948	27.8880	45.8641	2.683	1530.6	4130.	0.4630E 02	0.325
4400.	2.451	34.902	69.06	5.62	2.0571	27.8883	45.8685	2.777	1534.0	4325.	0.4722E 02	0.271
4500.	2.443	34.900	69.07	5.61	2.0369	27.8883	45.8707	2.824	1535.7	4422.	0.4767E 02	0.277
4600.	2.436	34.898	69.08	5.65	2.0183	27.8884	45.8729	2.872	1537.4	4519.	0.4812E 02	0.277
4700.	2.432	34.896	69.07	5.63	2.0024	27.8886	45.8748	2.920	1539.1	4617.	0.4859E 02	0.264
4800.	2.429	34.895	69.07	5.66	1.9874	27.8890	45.8768	2.969	1540.9	4714.	0.4906E 02	0.267
4900.	2.431	34.894	69.08	5.69	1.9767	27.8888	45.8778	3.019	1542.6	4811.	0.4962E 02	0.197
5000.	2.437	34.893	69.08	5.65	1.9694	27.8888	45.8786	3.068	1544.4	4908.	0.5021E 02	0.176
5100.	2.444	34.893	69.05	5.69	1.9633	27.8886	45.8791	3.119	1546.1	5005.	0.5082E 02	0.147
5200.	2.454	34.892	69.02	5.66	1.9602	27.8888	45.8796	3.170	1547.9	5102.	0.5146E 02	0.130
5300.	2.464	34.892	68.99	5.68	1.9574	27.8887	45.8798	3.222	1549.7	5199.	0.5211E 02	0.101
5400.	2.478	34.892	68.96	5.68	1.9572	27.8886	45.8797	3.274	1551.5	5296.	0.5280E 02	-0.036
5500.	2.491	34.892	68.97	5.69	1.9572	27.8883	45.8795	3.328	1553.3	5393.	0.5352E 02	-0.093

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C.DARWIN 1/85 STATION 008

P-DB	T-DEGC	SAL-PSU	POTRAN	DO-ML/L	POTEMP	SIGMA0	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-C/HR
10.	18.157	36.585	62.23	5.29	18.1555	26.4486	43.0588	0.016	1518.2	10.	0.1575E 03	-9.990
20.	18.112	36.595	62.34	5.27	18.1089	26.4681	43.0809	0.031	1518.2	20.	0.1560E 03	2.481
30.	18.102	36.599	62.43	5.26	18.0966	26.4740	43.0875	0.047	1518.4	30.	0.1558E 03	1.369
50.	18.095	36.602	62.69	5.29	18.0863	26.4790	43.0931	0.078	1518.7	50.	0.1561E 03	0.891
75.	18.097	36.603	63.96	5.31	18.0837	26.4803	43.0945	0.117	1519.1	74.	0.1570E 03	0.399
100.	18.097	36.601	64.55	5.32	18.0799	26.4804	43.0948	0.157	1519.5	99.	0.1579E 03	0.108
125.	18.094	36.601	64.75	5.28	18.0726	26.4820	43.0969	0.196	1519.9	124.	0.1587E 03	0.451
150.	18.069	36.594	65.12	5.31	18.0428	26.4839	43.1008	0.236	1520.3	149.	0.1595E 03	0.496
200.	17.206	36.408	67.08	4.95	17.1721	26.5552	43.2318	0.315	1518.4	199.	0.1544E 03	2.164
250.	16.479	36.278	67.69	4.99	16.4381	26.6297	43.3573	0.391	1516.9	248.	0.1489E 03	2.213
300.	15.618	36.128	67.90	5.10	15.5712	26.7149	43.5042	0.464	1514.9	298.	0.1421E 03	2.380
400.	14.216	35.906	68.10	5.08	14.1568	26.8546	43.7478	0.601	1511.8	397.	0.1313E 03	2.172
500.	13.032	35.741	68.22	5.04	12.9616	26.9760	43.9601	0.728	1509.4	496.	0.1218E 03	2.043
600.	11.855	35.595	68.32	4.93	11.7755	27.0946	44.1721	0.845	1506.9	595.	0.1122E 03	2.043
700.	10.918	35.508	68.48	4.74	10.8295	27.2029	44.3567	0.953	1505.2	694.	0.1034E 03	1.958
800.	10.092	35.495	68.60	4.58	9.9952	27.3399	44.5611	1.051	1504.0	793.	0.9167E 02	2.179
900.	9.447	35.525	68.66	4.58	9.3417	27.4736	44.7479	1.136	1503.3	892.	0.8027E 02	2.145
1000.	8.860	35.546	68.72	4.58	8.7470	27.5873	44.9110	1.211	1502.9	991.	0.7062E 02	1.995
1200.	7.861	35.527	68.79	4.86	7.7318	27.7287	45.1407	1.340	1502.4	1188.	0.5901E 02	1.623
1400.	6.530	35.380	68.89	5.34	6.3913	27.8019	45.3386	1.450	1500.4	1386.	0.5173E 02	1.350
1600.	5.505	35.260	68.94	5.64	5.3571	27.8392	45.4762	1.549	1499.5	1583.	0.4759E 02	1.098
1800.	4.790	35.167	68.96	5.73	4.6307	27.8502	45.5600	1.643	1499.9	1780.	0.4617E 02	0.825
2000.	4.178	35.090	69.01	5.81	4.0075	27.8574	45.6309	1.734	1500.6	1977.	0.4487E 02	0.779
2200.	3.714	35.035	69.00	5.84	3.5312	27.8625	45.6855	1.823	1502.0	2173.	0.4392E 02	0.710
2400.	3.383	35.001	69.06	5.76	3.1860	27.8686	45.7278	1.910	1503.9	2370.	0.4320E 02	0.659
2600.	3.132	34.978	69.05	5.74	2.9190	27.8749	45.7623	1.995	1506.2	2566.	0.4264E 02	0.620
2800.	2.953	34.961	69.06	5.63	2.7240	27.8792	45.7874	2.081	1508.8	2762.	0.4251E 02	0.542
3000.	2.803	34.946	69.09	5.58	2.5559	27.8820	45.8082	2.166	1511.5	2958.	0.4254E 02	0.504
3200.	2.707	34.937	69.10	5.58	2.4413	27.8844	45.8228	2.251	1514.5	3154.	0.4289E 02	0.436
3400.	2.626	34.927	69.13	5.54	2.3409	27.8853	45.8346	2.337	1517.6	3350.	0.4339E 02	0.398
3600.	2.576	34.920	69.15	5.57	2.2707	27.8857	45.8427	2.425	1520.8	3545.	0.4413E 02	0.335
3800.	2.531	34.914	69.17	5.57	2.2049	27.8858	45.8499	2.514	1524.0	3740.	0.4488E 02	0.328
4000.	2.500	34.909	69.15	5.57	2.1513	27.8866	45.8566	2.604	1527.3	3935.	0.4565E 02	0.320
4200.	2.472	34.905	69.18	5.63	2.1009	27.8873	45.8627	2.696	1530.7	4130.	0.4643E 02	0.315
4400.	2.452	34.901	69.20	5.64	2.0577	27.8878	45.8679	2.790	1534.0	4325.	0.4727E 02	0.296
4500.	2.445	34.899	69.20	5.64	2.0392	27.8877	45.8699	2.838	1535.7	4422.	0.4775E 02	0.261
4600.	2.441	34.898	69.21	5.64	2.0232	27.8878	45.8717	2.886	1537.4	4519.	0.4823E 02	0.257
4700.	2.435	34.896	69.19	5.66	2.0050	27.8881	45.8740	2.934	1539.1	4617.	0.4867E 02	0.284
4800.	2.434	34.894	69.20	5.65	1.9920	27.8878	45.8751	2.983	1540.9	4714.	0.4922E 02	0.211
4900.	2.436	34.894	69.20	5.67	1.9811	27.8881	45.8766	3.032	1542.6	4811.	0.4974E 02	0.232
5000.	2.441	34.893	69.21	5.67	1.9731	27.8880	45.8775	3.082	1544.4	4908.	0.5032E 02	0.179
5100.	2.446	34.892	69.19	5.68	1.9661	27.8879	45.8781	3.133	1546.1	5005.	0.5092E 02	0.159
5200.	2.455	34.892	69.17	5.66	1.9615	27.8880	45.8787	3.184	1547.9	5102.	0.5153E 02	0.157
5300.	2.465	34.891	69.12	5.67	1.9585	27.8878	45.8788	3.236	1549.7	5199.	0.5220E 02	0.083
5400.	2.478	34.891	69.08	5.69	1.9576	27.8881	45.8792	3.289	1551.5	5296.	0.5285E 02	0.107
5500.	2.492	34.891	69.06	5.70	1.9574	27.8879	45.8790	3.342	1553.3	5393.	0.5356E 02	-0.066

C.DARWIN 1/85 STATION 009

P-DB	T-DEGC	SAL-PSU	POTRAN	DO-ML/L	POTEMP	SIGMA0	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-C/HR
10.	17.796	36.600	63.73	5.18	17.7939	26.5505	43.1829	0.015	1517.2	10.	0.1478E 03	-9.990
20.	17.787	36.599	63.82	5.20	17.7841	26.5521	43.1851	0.030	1517.3	20.	0.1480E 03	0.710
30.	17.788	36.601	63.38	5.19	17.7831	26.5537	43.1868	0.044	1517.5	30.	0.1483E 03	0.715
50.	17.739	36.593	64.69	5.21	17.7307	26.5605	43.1971	0.074	1517.7	50.	0.1484E 03	1.041
75.	17.715	36.590	64.42	5.30	17.7025	26.5656	43.2040	0.111	1518.0	74.	0.1488E 03	0.807
100.	17.672	36.579	64.56	5.23	17.6549	26.5688	43.2104	0.148	1518.3	99.	0.1495E 03	0.640
125.	17.130	36.448	65.64	5.12	17.1095	26.6009	43.2805	0.186	1516.9	124.	0.1473E 03	2.049
150.	16.073	36.212	67.09	4.98	16.0490	26.6697	43.4247	0.222	1513.9	149.	0.1414E 03	3.008
200.	15.251	36.066	67.49	5.09	15.2197	26.7463	43.5611	0.291	1512.0	199.	0.1356E 03	2.240
250.	14.607	35.965	67.64	5.07	14.5697	26.8115	43.6740	0.358	1510.7	248.	0.1308E 03	2.073
300.	13.998	35.875	67.73	5.08	13.9542	26.8742	43.7826	0.422	1509.5	298.	0.1262E 03	2.043
400.	12.922	35.725	67.86	5.00	12.8667	26.9822	43.9738	0.543	1507.4	397.	0.1182E 03	1.912
500.	11.898	35.599	68.07	4.98	11.8315	27.0875	44.1606	0.658	1505.4	496.	0.1102E 03	1.906
600.	11.136	35.530	68.25	4.77	11.0598	27.1781	44.3131	0.764	1504.4	595.	0.1035E 03	1.774
700.	10.528	35.508	68.35	4.54	10.4417	27.2725	44.4572	0.864	1503.9	694.	0.9628E 02	1.803
800.	9.813	35.491	68.41	4.46	9.7178	27.3840	44.6282	0.956	1503.0	793.	0.8706E 02	1.973
900.	9.187	35.509	68.45	4.52	9.0830	27.5041	44.8005	1.038	1502.4	892.	0.7692E 02	2.040
1000.	8.599	35.527	68.46	4.68	8.4870	27.6131	44.9596	1.111	1501.9	991.	0.6764E 02	1.959
1200.	7.824	35.548	68.58	4.78	7.6952	27.7501	45.1647	1.233	1502.3	1188.	0.5693E 02	1.573
1400.	6.280	35.338	68.63	5.50	6.1439	27.8012	45.3620	1.342	1499.4	1386.	0.5098E 02	1.261
1600.	5.354	35.230	68.68	5.69	5.2079	27.8331	45.4851	1.440	1498.9	1583.	0.4759E 02	1.032
1800.	4.794	35.167	68.70	5.78	4.6348	27.8499	45.5593	1.534	1499.9	1780.	0.4622E 02	0.815
2000.	4.163	35.085	68.73	5.87	3.9927	27.8548	45.6299	1.625	1500.5	1977.	0.4503E 02	0.766
2200.	3.667	35.028	68.77	5.88	3.4845	27.8612	45.6892	1.714	1501.8	2173.	0.4378E 02	0.743
2400.	3.356	34.997	68.80	5.80	3.1592	27.8677	45.7298	1.801	1503.8	2370.	0.4312E 02	0.649
2600.	3.127	34.975	68.79	5.74	2.9148	27.8729	45.7608	1.887	1506.2	2566.	0.4279E 02	0.586
2800.	2.947	34.958	68.80	5.63	2.7175	27.8776	45.7865	1.972	1508.8	2762.	0.4261E 02	0.550
3000.	2.818	34.947	68.80	5.60	2.5706	27.8812	45.8058	2.058	1511.6	2958.	0.4272E 02	0.489
3200.	2.712	34.936	68.82	5.60	2.4470	27.8837	45.8216	2.143	1514.6	3154.	0.4299E 02	0.453
3400.	2.633	34.927	68.87	5.60	2.3481	27.8850	45.8335	2.230	1517.6	3349.	0.4348E 02	0.401
3600.	2.567	34.919	68.90	5.57	2.2614	27.8855	45.8435	2.317	1520.8	3545.	0.4406E 02	0.374
3800.	2.527	34.913	68.95	5.57	2.2008	27.8860	45.8505	2.406	1524.0	3740.	0.4483E 02	0.323
4000.	2.487	34.907	68.94	5.60	2.1394	27.8863	45.8576	2.496	1527.3	3935.	0.4556E 02	0.329
4200.	2.460	34.902	68.97	5.65	2.0893	27.8862	45.8629	2.588	1530.6	4130.	0.4640E 02	0.295
4400.	2.442	34.899	68.99	5.62	2.0488	27.8870	45.8681	2.682	1534.0	4325.	0.4724E 02	0.295
4500.	2.436	34.898	68.99	5.66	2.0308	27.8876	45.8707	2.729	1535.7	4422.	0.4766E 02	0.298
4600.	2.432	34.896	68.97	5.64	2.0143	27.8872	45.8722	2.777	1537.4	4519.	0.4818E 02	0.229
4700.	2.429	34.895	68.99	5.64	1.9992	27.8874	45.8740	2.826	1539.1	4616.	0.4866E 02	0.256
4800.	2.429	34.893	68.99	5.65	1.9868	27.8874	45.8754	2.874	1540.9	4714.	0.4919E 02	0.224
4900.	2.433	34.893	68.99	5.68	1.9785	27.8876	45.8764	2.924	1542.6	4811.	0.4975E 02	0.201
5000.	2.440	34.892	69.00	5.65	1.9725	27.8874	45.8769	2.974	1544.4	4908.	0.5036E 02	0.142
5100.	2.447	34.891	68.97	5.67	1.9666	27.8873	45.8775	3.025	1546.1	5005.	0.5098E 02	0.145
5200.	2.457	34.891	68.97	5.69	1.9635	27.8872	45.8777	3.076	1547.9	5102.	0.5163E 02	0.109
5300.	2.468	34.890	68.95	5.67	1.9607	27.8870	45.8779	3.128	1549.7	5199.	0.5229E 02	0.080
5400.	2.478	34.890	68.83	5.68	1.9577	27.8873	45.8784	3.181	1551.5	5296.	0.5292E 02	0.147
5500.	2.491	34.891	68.81	5.69	1.9572	27.8876	45.8788	3.234	1553.3	5393.	0.5358E 02	0.109

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C.DARWIN 1/85 STATION 010

P-DB	T-DEGC	SAL-PSU	POTRAN	DO-ML/L	POTEMP	SIGMA0	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-C/HR
10.	17.851	36.618	60.82	5.29	17.8493	26.5504	43.1789	0.015	1517.3	10.	0.1478E 03	-9.990
20.	17.857	36.617	60.89	5.41	17.8531	26.5491	43.1774	0.030	1517.5	20.	0.1483E 03	-0.649
30.	17.806	36.612	61.17	5.43	17.8013	26.5578	43.1894	0.044	1517.5	30.	0.1479E 03	1.658
50.	17.717	36.601	64.12	5.40	17.7085	26.5720	43.2097	0.074	1517.6	50.	0.1473E 03	1.501
75.	17.669	36.597	64.54	5.39	17.6558	26.5822	43.2234	0.111	1517.9	74.	0.1473E 03	1.140
100.	17.618	36.589	64.84	5.34	17.6009	26.5896	43.2344	0.148	1518.1	99.	0.1475E 03	0.970
125.	17.422	36.540	65.31	5.28	17.4013	26.6008	43.2595	0.184	1517.9	124.	0.1474E 03	1.211
150.	16.463	36.300	67.39	4.92	16.4390	26.6465	43.3735	0.221	1515.2	149.	0.1437E 03	2.470
200.	15.978	36.205	67.53	4.90	15.9459	26.6887	43.4508	0.292	1514.4	199.	0.1413E 03	1.664
250.	15.140	36.074	67.51	5.02	15.1015	26.7786	43.6013	0.361	1512.5	248.	0.1342E 03	2.430
300.	14.296	35.920	67.76	5.13	14.2513	26.8454	43.7315	0.426	1510.5	298.	0.1290E 03	2.125
400.	13.062	35.745	67.92	5.09	13.0063	26.9699	43.9506	0.550	1507.9	397.	0.1195E 03	2.052
500.	11.917	35.600	68.05	4.97	11.8508	27.0848	44.1564	0.666	1505.5	496.	0.1105E 03	1.993
600.	11.195	35.535	68.22	4.78	11.1188	27.1714	44.3016	0.773	1504.6	595.	0.1042E 03	1.733
700.	10.421	35.502	68.35	4.54	10.3354	27.2858	44.4793	0.873	1503.5	694.	0.9488E 02	1.989
800.	9.720	35.515	68.43	4.34	9.6252	27.4189	44.6699	0.963	1502.6	793.	0.8364E 02	2.136
900.	9.159	35.535	68.45	4.48	9.0555	27.5287	44.8267	1.041	1502.3	892.	0.7458E 02	1.949
1000.	8.578	35.547	68.46	4.61	8.4665	27.6324	44.9801	1.111	1501.8	991.	0.6580E 02	1.915
1200.	7.459	35.483	68.53	5.04	7.3335	27.7521	45.2005	1.232	1500.8	1188.	0.5575E 02	1.532
1400.	5.815	35.267	68.58	5.63	5.6842	27.8041	45.4099	1.337	1497.5	1386.	0.4917E 02	1.290
1600.	4.897	35.144	68.61	5.88	4.7561	27.8181	45.5163	1.432	1496.9	1583.	0.4719E 02	0.889
1800.	4.316	35.078	68.61	6.00	4.1632	27.8309	45.5893	1.525	1497.8	1780.	0.4586E 02	0.788
2000.	3.788	35.007	68.63	6.07	3.6234	27.8305	45.6451	1.617	1498.9	1977.	0.4539E 02	0.656
2200.	3.437	34.972	68.62	6.05	3.2589	27.8387	45.6914	1.707	1500.7	2173.	0.4457E 02	0.674
2400.	3.302	34.973	68.61	5.92	3.1063	27.8538	45.7220	1.795	1503.5	2370.	0.4406E 02	0.619
2600.	3.189	34.975	68.66	5.75	2.9754	27.8672	45.7489	1.883	1506.4	2566.	0.4370E 02	0.590
2800.	3.040	34.965	68.68	5.68	2.8088	27.8746	45.7738	1.970	1509.2	2762.	0.4352E 02	0.555
3000.	2.878	34.951	68.69	5.63	2.6299	27.8795	45.7978	2.057	1511.9	2958.	0.4332E 02	0.547
3200.	2.760	34.940	68.71	5.56	2.4930	27.8831	45.8160	2.143	1514.8	3154.	0.4342E 02	0.488
3400.	2.665	34.930	68.74	5.51	2.3791	27.8845	45.8297	2.231	1517.8	3350.	0.4378E 02	0.431
3600.	2.588	34.921	68.77	5.51	2.2823	27.8857	45.8414	2.319	1520.9	3545.	0.4423E 02	0.406
3800.	2.534	34.914	68.79	5.57	2.2077	27.8861	45.8499	2.408	1524.0	3740.	0.4488E 02	0.354
4000.	2.500	34.909	68.81	5.57	2.1519	27.8866	45.8565	2.498	1527.3	3935.	0.4566E 02	0.319
4200.	2.472	34.905	68.84	5.60	2.1011	27.8876	45.8630	2.590	1530.7	4130.	0.4641E 02	0.323
4400.	2.452	34.901	68.87	5.62	2.0581	27.8875	45.8676	2.684	1534.0	4325.	0.4730E 02	0.280
4500.	2.447	34.899	68.90	5.61	2.0412	27.8875	45.8695	2.732	1535.7	4422.	0.4779E 02	0.254
4600.	2.439	34.897	68.88	5.62	2.0218	27.8877	45.8718	2.780	1537.4	4519.	0.4822E 02	0.287
4700.	2.439	34.896	68.89	5.62	2.0090	27.8875	45.8730	2.828	1539.2	4617.	0.4877E 02	0.208
4800.	2.442	34.895	68.90	5.63	1.9993	27.8876	45.8741	2.877	1540.9	4714.	0.4932E 02	0.207
4900.	2.443	34.894	68.82	5.63	1.9882	27.8874	45.8752	2.927	1542.7	4811.	0.4988E 02	0.201
5000.	2.448	34.893	68.90	5.65	1.9804	27.8873	45.8759	2.977	1544.4	4908.	0.5047E 02	0.170
5100.	2.454	34.893	68.88	5.66	1.9734	27.8878	45.8772	3.028	1546.2	5005.	0.5103E 02	0.213
5200.	2.462	34.892	68.89	5.65	1.9683	27.8874	45.8773	3.079	1547.9	5102.	0.5168E 02	0.103
5300.	2.471	34.891	68.83	5.68	1.9642	27.8875	45.8780	3.131	1549.7	5199.	0.5230E 02	0.154
5400.	2.482	34.891	68.75	5.67	1.9611	27.8874	45.8782	3.184	1551.5	5296.	0.5296E 02	0.106
5500.	2.495	34.891	68.71	5.67	1.9603	27.8873	45.8781	3.237	1553.3	5393.	0.5365E 02	-0.023

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C.DARWIN 1/85 STATION 011

P-DB	T-DEGC	SAL-PSU	POTRAN	DO-ML/L	POTEMP	SIGMA0	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-C/HR
10.	18.428	36.625	59.08	5.50	18.4266	26.4114	43.0038	0.016	1519.0	10.	0.1610E 03	-9.990
20.	18.404	36.626	59.91	5.45	18.4003	26.4185	43.0125	0.032	1519.1	20.	0.1607E 03	1.502
30.	18.380	36.626	59.55	5.48	18.3752	26.4250	43.0205	0.048	1519.2	30.	0.1605E 03	1.428
50.	18.349	36.622	61.02	5.39	18.3407	26.4307	43.0285	0.080	1519.5	50.	0.1607E 03	0.956
75.	18.345	36.619	61.88	5.42	18.3314	26.4309	43.0293	0.121	1519.9	74.	0.1617E 03	0.125
100.	18.322	36.613	63.47	5.41	18.3040	26.4328	43.0331	0.161	1520.2	99.	0.1625E 03	0.499
125.	18.699	36.747	63.81	5.25	18.6770	26.4408	43.0149	0.202	1521.9	124.	0.1628E 03	0.956
150.	18.738	36.766	64.10	5.18	18.7115	26.4471	43.0187	0.243	1522.4	149.	0.1632E 03	0.886
200.	17.524	36.522	67.17	4.97	17.4894	26.5657	43.2192	0.321	1519.4	199.	0.1535E 03	2.781
250.	17.056	36.440	67.54	4.95	17.0146	26.6173	43.3033	0.397	1518.8	248.	0.1503E 03	1.840
300.	15.964	36.218	67.73	4.93	15.9158	26.7057	43.4694	0.471	1516.1	298.	0.1432E 03	2.437
400.	14.385	35.948	67.85	4.97	14.3251	26.8510	43.7311	0.609	1512.4	397.	0.1318E 03	2.221
500.	13.077	35.757	67.90	4.93	13.0064	26.9791	43.9595	0.736	1509.6	496.	0.1216E 03	2.103
600.	11.841	35.604	68.12	4.89	11.7619	27.1044	44.1826	0.852	1506.9	595.	0.1113E 03	2.099
700.	10.999	35.536	68.25	4.58	10.9105	27.2099	44.3565	0.960	1505.6	694.	0.1028E 03	1.925
800.	10.231	35.497	68.36	4.40	10.1338	27.3177	44.5276	1.059	1504.5	793.	0.9398E 02	1.949
900.	9.530	35.500	68.41	4.42	9.4241	27.4404	44.7085	1.147	1503.6	892.	0.8354E 02	2.071
1000.	8.947	35.506	68.43	4.46	8.8327	27.5416	44.8593	1.226	1503.1	991.	0.7506E 02	1.894
1200.	7.973	35.521	68.43	4.74	7.8429	27.7075	45.1099	1.360	1502.8	1188.	0.6128E 02	1.734
1400.	6.809	35.420	68.56	5.21	6.6677	27.7958	45.3060	1.475	1501.6	1386.	0.5321E 02	1.404
1600.	5.698	35.278	68.59	5.56	5.5472	27.8302	45.4486	1.577	1500.3	1583.	0.4916E 02	1.100
1800.	4.873	35.172	68.60	5.77	4.7122	27.8453	45.5469	1.673	1500.2	1780.	0.4698E 02	0.904
2000.	4.302	35.098	68.63	5.84	4.1297	27.8507	45.6118	1.766	1501.1	1977.	0.4608E 02	0.740
2200.	3.839	35.045	68.62	5.86	3.6536	27.8576	45.6680	1.857	1502.5	2173.	0.4504E 02	0.728
2400.	3.468	35.007	68.64	5.80	3.2697	27.8651	45.7156	1.946	1504.3	2370.	0.4402E 02	0.702
2600.	3.202	34.982	68.66	5.71	2.9883	27.8721	45.7522	2.033	1506.5	2566.	0.4334E 02	0.640
2800.	3.005	34.964	68.64	5.66	2.7752	27.8767	45.7795	2.120	1509.0	2762.	0.4309E 02	0.565
3000.	2.836	34.949	68.67	5.60	2.5886	27.8812	45.8039	2.206	1511.7	2958.	0.4286E 02	0.550
3200.	2.737	34.939	68.69	5.55	2.4711	27.8838	45.8191	2.292	1514.7	3154.	0.4318E 02	0.444
3400.	2.647	34.928	68.75	5.56	2.3619	27.8841	45.8312	2.378	1517.7	3349.	0.4368E 02	0.400
3600.	2.579	34.921	68.78	5.52	2.2738	27.8858	45.8424	2.466	1520.8	3545.	0.4415E 02	0.400
3800.	2.528	34.913	68.80	5.57	2.2013	27.8861	45.8506	2.555	1524.0	3740.	0.4482E 02	0.347
4000.	2.489	34.909	68.81	5.57	2.1412	27.8871	45.8581	2.645	1527.3	3935.	0.4551E 02	0.342
4200.	2.469	34.905	68.83	5.61	2.0986	27.8875	45.8631	2.737	1530.7	4130.	0.4639E 02	0.284
4400.	2.450	34.900	68.85	5.62	2.0557	27.8875	45.8679	2.831	1534.0	4325.	0.4728E 02	0.282
4500.	2.446	34.899	68.83	5.66	2.0400	27.8880	45.8700	2.878	1535.7	4422.	0.4773E 02	0.272
4600.	2.431	34.897	68.84	5.64	2.0134	27.8881	45.8731	2.926	1537.4	4519.	0.4809E 02	0.329
4700.	2.428	34.895	68.84	5.67	1.9980	27.8880	45.8747	2.975	1539.1	4617.	0.4860E 02	0.240
4800.	2.428	34.894	68.81	5.66	1.9864	27.8880	45.8760	3.024	1540.9	4714.	0.4913E 02	0.219
4900.	2.432	34.893	68.82	5.67	1.9779	27.8879	45.8768	3.073	1542.6	4811.	0.4971E 02	0.179
5000.	2.443	34.893	68.80	5.66	1.9756	27.8877	45.8769	3.123	1544.4	4908.	0.5038E 02	0.069
5100.	2.453	34.893	68.80	5.68	1.9726	27.8881	45.8775	3.174	1546.2	5005.	0.5099E 02	0.152
5200.	2.463	34.892	68.81	5.66	1.9692	27.8880	45.8778	3.225	1548.0	5102.	0.5164E 02	0.110

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C.DARWIN 1/85 STATION 012

P-DB	T-DEGC	SAL-PSU	POTRAN	DO-ML/L	POTEMP	SIGMA0	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-C/HR
10.	18.567	36.613	61.44	5.21	18.5654	26.3670	42.9511	0.016	1519.4	10.	0.1652E 03	-9.990
20.	18.576	36.613	61.47	5.22	18.5727	26.3653	42.9490	0.033	1519.6	20.	0.1658E 03	-0.718
30.	18.579	36.615	61.57	5.21	18.5733	26.3663	42.9499	0.050	1519.8	30.	0.1661E 03	0.546
50.	18.582	36.625	62.10	5.23	18.5731	26.3740	42.9575	0.083	1520.1	50.	0.1661E 03	1.108
75.	18.435	36.585	64.10	5.24	18.4221	26.3821	42.9758	0.124	1520.1	74.	0.1663E 03	1.023
100.	18.315	36.582	65.54	5.22	18.2972	26.4113	43.0127	0.166	1520.1	99.	0.1645E 03	1.925
125.	18.020	36.540	66.07	5.11	17.9982	26.4540	43.0751	0.207	1519.7	124.	0.1614E 03	2.340
150.	17.324	36.381	66.72	4.91	17.2987	26.5034	43.1726	0.246	1517.9	149.	0.1575E 03	2.542
200.	16.811	36.327	67.06	4.90	16.7777	26.5875	43.2917	0.323	1517.1	199.	0.1512E 03	2.328
250.	15.981	36.194	67.33	4.98	15.9407	26.6807	43.4435	0.397	1515.2	248.	0.1438E 03	2.471
300.	15.275	36.081	67.46	4.95	15.2287	26.7554	43.5692	0.468	1513.8	298.	0.1381E 03	2.225
400.	13.730	35.842	67.61	4.97	13.6718	26.9077	43.8372	0.600	1510.2	397.	0.1259E 03	2.269
500.	12.580	35.687	67.80	4.94	12.5117	27.0235	44.0426	0.721	1507.9	496.	0.1169E 03	1.999
600.	11.713	35.584	67.91	4.82	11.6338	27.1137	44.2023	0.834	1506.4	595.	0.1102E 03	1.779
700.	10.756	35.507	68.09	4.64	10.6681	27.2311	44.3978	0.940	1504.7	694.	0.1005E 03	2.033
800.	10.074	35.490	68.18	4.45	9.9777	27.3388	44.5616	1.036	1503.9	793.	0.9174E 02	1.937
900.	9.464	35.508	68.24	4.42	9.3589	27.4578	44.7312	1.123	1503.4	892.	0.8178E 02	2.029
1000.	9.011	35.557	68.28	4.46	8.8968	27.5719	44.8826	1.200	1503.4	991.	0.7239E 02	1.974
1200.	8.076	35.559	68.36	4.77	7.9450	27.7215	45.1139	1.332	1503.3	1188.	0.6026E 02	1.654
1400.	6.746	35.407	68.42	5.21	6.6054	27.7944	45.3107	1.445	1501.3	1386.	0.5314E 02	1.347
1600.	5.660	35.272	68.49	5.54	5.5100	27.8298	45.4519	1.547	1500.2	1583.	0.4905E 02	1.101
1800.	4.914	35.176	68.52	5.71	4.7530	27.8438	45.5413	1.642	1500.4	1780.	0.4730E 02	0.863
2000.	4.277	35.098	68.54	5.81	4.1051	27.8531	45.6166	1.735	1501.0	1977.	0.4574E 02	0.812
2200.	3.744	35.033	68.58	5.84	3.5606	27.8579	45.6780	1.826	1502.1	2173.	0.4451E 02	0.747
2400.	3.419	35.002	68.59	5.76	3.2214	27.8657	45.7213	1.914	1504.1	2370.	0.4368E 02	0.674
2600.	3.157	34.976	68.62	5.72	2.9443	27.8712	45.7560	2.000	1506.3	2566.	0.4314E 02	0.619
2800.	2.975	34.959	68.60	5.66	2.7453	27.8760	45.7820	2.086	1508.9	2762.	0.4294E 02	0.554
3000.	2.835	34.948	68.63	5.58	2.5874	27.8808	45.8036	2.172	1511.7	2958.	0.4289E 02	0.520
3200.	2.706	34.936	68.65	5.59	2.4404	27.8837	45.8223	2.258	1514.5	3154.	0.4294E 02	0.493
3400.	2.622	34.926	68.67	5.60	2.3369	27.8852	45.8349	2.344	1517.6	3349.	0.4337E 02	0.413
3600.	2.559	34.919	68.69	5.57	2.2540	27.8859	45.8447	2.432	1520.7	3545.	0.4396E 02	0.371
3800.	2.505	34.912	68.74	5.59	2.1794	27.8864	45.8533	2.520	1523.9	3740.	0.4459E 02	0.355
4000.	2.478	34.907	68.73	5.59	2.1306	27.8865	45.8587	2.610	1527.2	3935.	0.4546E 02	0.289
4200.	2.451	34.902	68.75	5.60	2.0810	27.8868	45.8644	2.702	1530.6	4130.	0.4626E 02	0.304
4400.	2.435	34.899	68.76	5.63	2.0417	27.8877	45.8696	2.795	1534.0	4325.	0.4711E 02	0.293
4500.	2.429	34.898	68.77	5.62	2.0238	27.8878	45.8717	2.842	1535.7	4422.	0.4757E 02	0.270
4600.	2.419	34.895	68.78	5.64	2.0016	27.8878	45.8741	2.890	1537.3	4519.	0.4799E 02	0.292
4700.	2.426	34.895	68.77	5.66	1.9968	27.8878	45.8746	2.938	1539.1	4616.	0.4860E 02	0.146
4800.	2.424	34.893	68.78	5.66	1.9821	27.8877	45.8762	2.987	1540.8	4714.	0.4910E 02	0.240
4900.	2.428	34.893	68.75	5.67	1.9738	27.8880	45.8774	3.037	1542.6	4811.	0.4965E 02	0.207
5000.	2.437	34.892	68.74	5.66	1.9697	27.8878	45.8776	3.087	1544.4	4908.	0.5030E 02	0.098
5100.	2.446	34.892	68.73	5.66	1.9660	27.8881	45.8783	3.137	1546.1	5005.	0.5091E 02	0.157
5200.	2.457	34.891	68.73	5.69	1.9637	27.8877	45.8781	3.189	1547.9	5102.	0.5160E 02	-0.048
5300.	2.469	34.891	68.69	5.68	1.9616	27.8878	45.8785	3.240	1549.7	5199.	0.5224E 02	0.122
5400.	2.481	34.892	68.71	5.71	1.9601	27.8880	45.8789	3.293	1551.5	5296.	0.5289E 02	0.114

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C.DARWIN 1/85 STATION 013

P-DB	T-DEGC	SAL-PSU	POTRAN	DO-ML/L	POTEMP	SIGMA0	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-C/HR
10.	18.104	36.611	61.12	5.36	18.1023	26.4820	43.0948	0.015	1518.1	10.	0.1543E 03	-9.990
20.	18.103	36.608	61.06	5.38	18.0994	26.4807	43.0938	0.031	1518.2	20.	0.1548E 03	-0.645
30.	18.106	36.611	61.15	5.37	18.1010	26.4821	43.0951	0.046	1518.4	30.	0.1551E 03	0.673
50.	18.119	36.629	63.55	5.35	18.1104	26.4936	43.1055	0.077	1518.8	50.	0.1548E 03	1.347
75.	18.108	36.631	65.36	5.29	18.0953	26.4995	43.1123	0.116	1519.2	74.	0.1552E 03	0.865
100.	18.108	36.632	65.45	5.32	18.0907	26.5009	43.1139	0.155	1519.6	99.	0.1560E 03	0.412
125.	18.106	36.630	65.62	5.30	18.0843	26.5015	43.1150	0.194	1520.0	124.	0.1569E 03	0.289
150.	18.102	36.630	65.80	5.33	18.0763	26.5031	43.1171	0.233	1520.4	149.	0.1577E 03	0.447
200.	16.892	36.378	66.34	5.05	16.8589	26.6071	43.3047	0.312	1517.4	199.	0.1494E 03	2.612
250.	15.958	36.206	67.24	5.08	15.9181	26.6955	43.4594	0.384	1515.2	248.	0.1424E 03	2.415
300.	15.247	36.080	67.43	5.03	15.2007	26.7612	43.5770	0.454	1513.7	298.	0.1375E 03	2.095
400.	13.757	35.843	67.70	5.07	13.6990	26.9033	43.8309	0.586	1510.3	397.	0.1263E 03	2.195
500.	12.615	35.687	67.77	4.99	12.5461	27.0167	44.0332	0.707	1508.0	496.	0.1176E 03	1.979
600.	11.701	35.584	67.98	4.92	11.6218	27.1158	44.2054	0.821	1506.4	595.	0.1100E 03	1.862
700.	10.863	35.511	68.09	4.73	10.7744	27.2154	44.3734	0.928	1505.1	694.	0.1021E 03	1.875
800.	10.001	35.483	68.18	4.50	9.9052	27.3459	44.5748	1.025	1503.6	793.	0.9095E 02	2.136
900.	9.402	35.520	68.23	4.43	9.2970	27.4774	44.7556	1.110	1503.2	892.	0.7983E 02	2.122
1000.	8.887	35.544	68.29	4.48	8.7738	27.5811	44.9026	1.185	1503.0	991.	0.7126E 02	1.901
1200.	8.017	35.552	68.33	4.78	7.8865	27.7252	45.1229	1.315	1503.0	1188.	0.5976E 02	1.620
1400.	6.597	35.394	68.43	5.23	6.4583	27.8043	45.3344	1.425	1500.7	1386.	0.5174E 02	1.399
1600.	5.384	35.236	68.49	5.61	5.2378	27.8341	45.4832	1.524	1499.0	1583.	0.4760E 02	1.097
1800.	4.770	35.161	68.49	5.75	4.6106	27.8478	45.5597	1.617	1499.8	1780.	0.4630E 02	0.808
2000.	4.175	35.085	68.52	5.81	4.0042	27.8532	45.6272	1.708	1500.6	1977.	0.4523E 02	0.753
2200.	3.711	35.032	68.53	5.81	3.5276	27.8598	45.6833	1.798	1502.0	2173.	0.4415E 02	0.726
2400.	3.363	34.998	68.56	5.75	3.1662	27.8683	45.7296	1.885	1503.8	2370.	0.4311E 02	0.698
2600.	3.120	34.977	68.58	5.65	2.9076	27.8756	45.7642	1.970	1506.1	2566.	0.4250E 02	0.626
2800.	2.945	34.960	68.59	5.62	2.7161	27.8795	45.7884	2.055	1508.8	2762.	0.4243E 02	0.532
3000.	2.821	34.948	68.62	5.58	2.5743	27.8819	45.8060	2.140	1511.6	2958.	0.4269E 02	0.463
3200.	2.721	34.938	68.64	5.61	2.4557	27.8841	45.8211	2.226	1514.6	3154.	0.4302E 02	0.441
3400.	2.634	34.928	68.66	5.64	2.3494	27.8852	45.8336	2.312	1517.6	3349.	0.4347E 02	0.410
3600.	2.580	34.921	68.67	5.66	2.2747	27.8860	45.8425	2.400	1520.8	3545.	0.4413E 02	0.354
3800.	2.535	34.914	68.71	5.64	2.2081	27.8856	45.8494	2.489	1524.0	3740.	0.4493E 02	0.316
4000.	2.491	34.908	68.72	5.63	2.1431	27.8866	45.8575	2.579	1527.3	3935.	0.4557E 02	0.354
4200.	2.465	34.904	68.74	5.63	2.0945	27.8874	45.8635	2.671	1530.6	4130.	0.4635E 02	0.312
4400.	2.440	34.900	68.73	5.66	2.0467	27.8875	45.8689	2.765	1534.0	4325.	0.4718E 02	0.300
4500.	2.436	34.898	68.73	5.63	2.0310	27.8877	45.8708	2.812	1535.7	4422.	0.4766E 02	0.257
4600.	2.427	34.896	68.71	5.64	2.0094	27.8878	45.8732	2.860	1537.4	4519.	0.4807E 02	0.296
4700.	2.422	34.895	68.57	5.66	1.9925	27.8880	45.8753	2.909	1539.1	4616.	0.4853E 02	0.273
4800.	2.418	34.893	68.69	5.65	1.9763	27.8882	45.8773	2.957	1540.8	4714.	0.4900E 02	0.266
4900.	2.427	34.893	68.74	5.69	1.9725	27.8879	45.8774	3.007	1542.6	4811.	0.4965E 02	0.076
5000.	2.435	34.892	68.71	5.68	1.9680	27.8882	45.8781	3.057	1544.4	4908.	0.5024E 02	0.168
5100.	2.445	34.892	68.67	5.69	1.9648	27.8880	45.8783	3.107	1546.1	5005.	0.5090E 02	0.094
5200.	2.458	34.892	68.66	5.72	1.9645	27.8877	45.8781	3.158	1547.9	5102.	0.5160E 02	-0.092

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C.DARWIN 1/85 STATION 014

P-DB	T-DEGC	SAL-PSU	POTRAN	DO-ML/L	POTEMP	SIGMAO	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-C/HR
10.	18.091	36.626	61.03	5.33	18.0893	26.4967	43.1099	0.015	1518.1	10.	0.1529E 03	-9.990
20.	18.082	36.624	61.40	5.30	18.0784	26.4982	43.1122	0.031	1518.2	20.	0.1532E 03	0.705
30.	18.081	36.624	61.89	5.28	18.0758	26.4986	43.1128	0.046	1518.4	30.	0.1535E 03	0.355
50.	18.085	36.624	62.09	5.27	18.0763	26.4985	43.1126	0.077	1518.7	50.	0.1543E 03	-0.130
75.	18.087	36.624	62.34	5.37	18.0739	26.4995	43.1138	0.116	1519.1	74.	0.1552E 03	0.351
100.	18.088	36.623	62.49	5.35	18.0706	26.4995	43.1140	0.154	1519.5	99.	0.1561E 03	0.062
125.	17.681	36.539	66.08	5.22	17.6595	26.5369	43.1793	0.193	1518.7	124.	0.1535E 03	2.199
150.	17.175	36.444	66.68	4.98	17.1498	26.5883	43.2654	0.231	1517.5	149.	0.1494E 03	2.578
200.	16.193	36.253	67.24	4.98	16.1610	26.6757	43.4223	0.304	1515.1	199.	0.1426E 03	2.394
250.	15.775	36.175	67.37	5.00	15.7350	26.7133	43.4903	0.375	1514.6	248.	0.1406E 03	1.577
300.	14.859	36.014	67.54	5.02	14.8130	26.7964	43.6406	0.443	1512.4	298.	0.1340E 03	2.358
400.	13.701	35.835	67.69	4.98	13.6428	26.9087	43.8406	0.573	1510.1	397.	0.1258E 03	1.951
500.	12.482	35.676	67.84	4.94	12.4135	27.0346	44.0613	0.694	1507.5	496.	0.1158E 03	2.081
600.	11.507	35.566	68.01	4.87	11.4288	27.1375	44.2426	0.805	1505.7	595.	0.1077E 03	1.900
700.	10.773	35.515	68.13	4.64	10.6856	27.2340	44.3991	0.909	1504.7	694.	0.1002E 03	1.837
800.	10.077	35.499	68.21	4.50	9.9801	27.3457	44.5681	1.004	1503.9	793.	0.9110E 02	1.971
900.	9.474	35.517	68.28	4.43	9.3683	27.4629	44.7352	1.090	1503.4	892.	0.8133E 02	2.014
1000.	8.914	35.547	68.30	4.56	8.8005	27.5790	44.8982	1.165	1503.1	991.	0.7151E 02	2.010
1200.	7.987	35.552	68.37	4.80	7.8570	27.7294	45.1297	1.295	1502.9	1188.	0.5929E 02	1.656
1400.	6.629	35.395	68.46	5.31	6.4897	27.8009	45.3281	1.406	1500.8	1386.	0.5216E 02	1.345
1600.	5.439	35.232	68.47	5.72	5.2921	27.8245	45.4685	1.507	1499.2	1583.	0.4869E 02	1.046
1800.	4.577	35.121	68.50	5.95	4.4212	27.8375	45.5691	1.601	1498.9	1780.	0.4641E 02	0.902
2000.	4.102	35.069	68.54	5.94	3.9324	27.8486	45.6302	1.693	1500.3	1977.	0.4530E 02	0.750
2200.	3.734	35.035	68.58	5.82	3.5507	27.8603	45.6814	1.783	1502.1	2173.	0.4423E 02	0.723
2400.	3.429	35.007	68.63	5.74	3.2311	27.8693	45.7237	1.870	1504.1	2370.	0.4341E 02	0.673
2600.	3.155	34.978	68.63	5.81	2.9421	27.8734	45.7584	1.956	1506.3	2566.	0.4293E 02	0.611
2800.	2.972	34.959	68.62	5.82	2.7423	27.8759	45.7822	2.042	1508.9	2762.	0.4293E 02	0.522
3000.	2.854	34.949	68.64	5.80	2.6064	27.8801	45.8009	2.127	1511.8	2958.	0.4309E 02	0.484
3200.	2.729	34.937	68.65	5.74	2.4635	27.8832	45.8193	2.214	1514.6	3154.	0.4317E 02	0.489
3400.	2.678	34.930	68.62	5.73	2.3922	27.8833	45.8272	2.301	1517.8	3349.	0.4400E 02	0.323
3600.	2.630	34.925	68.61	5.66	2.3234	27.8851	45.8364	2.389	1521.0	3545.	0.4465E 02	0.363
3800.	2.556	34.917	68.70	5.63	2.2286	27.8864	45.8479	2.479	1524.1	3740.	0.4506E 02	0.413
4000.	2.461	34.905	68.69	5.62	2.1142	27.8866	45.8606	2.570	1527.2	3935.	0.4528E 02	0.444
4200.	2.380	34.896	68.69	5.63	2.0117	27.8872	45.8724	2.660	1530.3	4130.	0.4550E 02	0.437

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C.DARWIN 1/85 STATION 015

P-DB	T-DEGC	SAL-PSU	POTRAN	DO-ML/L	POTEMP	SIGMA0	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-C/HR
10.	17.878	36.532	63.10	5.17	17.8766	26.4776	43.1065	0.015	1517.3	10.	0.1547E 03	-9.990
20.	17.879	36.531	63.11	5.20	17.8760	26.4771	43.1060	0.031	1517.5	20.	0.1551E 03	-0.384
30.	17.877	36.537	63.12	5.25	17.8714	26.4827	43.1117	0.046	1517.7	30.	0.1550E 03	1.327
50.	17.887	36.535	62.94	5.26	17.8782	26.4800	43.1087	0.078	1518.0	50.	0.1560E 03	-0.651
75.	17.891	36.535	62.89	5.25	17.8783	26.4795	43.1081	0.117	1518.5	74.	0.1570E 03	-0.260
100.	17.893	36.535	62.92	5.21	17.8755	26.4806	43.1095	0.156	1518.9	99.	0.1579E 03	0.386
125.	17.923	36.544	63.51	5.15	17.9009	26.4811	43.1082	0.196	1519.4	124.	0.1588E 03	0.233
150.	18.005	36.578	65.75	5.12	17.9792	26.4879	43.1092	0.235	1520.1	149.	0.1591E 03	0.913
200.	16.786	36.353	66.89	4.87	16.7528	26.6132	43.3183	0.313	1517.0	198.	0.1488E 03	2.857
250.	15.786	36.146	67.26	5.01	15.7462	26.6884	43.4654	0.385	1514.6	248.	0.1430E 03	2.241
300.	14.950	36.016	67.46	5.15	14.9039	26.7778	43.6157	0.455	1512.7	298.	0.1358E 03	2.435
400.	13.724	35.834	67.67	5.14	13.6666	26.9028	43.8330	0.585	1510.2	397.	0.1264E 03	2.054
500.	12.735	35.699	67.79	4.96	12.6657	27.0020	44.0093	0.708	1508.4	496.	0.1191E 03	1.850
600.	11.793	35.596	67.95	4.84	11.7138	27.1073	44.1895	0.822	1506.7	595.	0.1109E 03	1.916
700.	10.959	35.519	68.08	4.65	10.8705	27.2035	44.3538	0.930	1505.4	694.	0.1034E 03	1.846
800.	10.154	35.497	68.16	4.59	10.0566	27.3310	44.5472	1.028	1504.2	793.	0.9261E 02	2.106
900.	9.474	35.509	68.20	4.52	9.3690	27.4564	44.7289	1.116	1503.4	892.	0.8193E 02	2.088
1000.	9.046	35.555	68.26	4.57	8.9317	27.5644	44.8723	1.193	1503.6	991.	0.7316E 02	1.921
1200.	7.750	35.493	68.31	4.97	7.6216	27.7184	45.1410	1.324	1501.9	1188.	0.5967E 02	1.719
1400.	6.300	35.321	68.39	5.49	6.1641	27.7852	45.3446	1.436	1499.5	1385.	0.5252E 02	1.337
1600.	5.127	35.163	68.46	5.87	4.9837	27.8066	45.4822	1.537	1497.9	1583.	0.4915E 02	1.026
1800.	4.404	35.076	68.49	6.00	4.2501	27.8201	45.5699	1.634	1498.2	1780.	0.4724E 02	0.854
2000.	3.957	35.028	68.52	6.02	3.7897	27.8307	45.6278	1.727	1499.6	1976.	0.4622E 02	0.731
2200.	3.632	35.005	68.55	5.91	3.4504	27.8458	45.6780	1.818	1501.6	2173.	0.4499E 02	0.734
2400.	3.351	34.985	68.58	5.82	3.1541	27.8589	45.7218	1.907	1503.7	2370.	0.4389E 02	0.702
2600.	3.162	34.974	68.61	5.74	2.9492	27.8689	45.7534	1.994	1506.3	2566.	0.4337E 02	0.613
2800.	2.996	34.963	68.64	5.63	2.7659	27.8769	45.7806	2.080	1509.0	2762.	0.4301E 02	0.580
3000.	2.865	34.950	68.64	5.66	2.6169	27.8801	45.7997	2.167	1511.8	2958.	0.4317E 02	0.486
3200.	2.762	34.941	68.66	5.66	2.4952	27.8831	45.8158	2.253	1514.8	3154.	0.4343E 02	0.458
3400.	2.666	34.930	68.70	5.66	2.3802	27.8843	45.8294	2.341	1517.8	3349.	0.4381E 02	0.427
3600.	2.599	34.921	68.70	5.59	2.2926	27.8844	45.8391	2.429	1520.9	3544.	0.4444E 02	0.367
3800.	2.549	34.916	68.74	5.62	2.2219	27.8863	45.8485	2.518	1524.1	3740.	0.4500E 02	0.376
4000.	2.517	34.910	68.73	5.62	2.1684	27.8861	45.8542	2.609	1527.4	3935.	0.4587E 02	0.295
4200.	2.486	34.906	68.76	5.67	2.1149	27.8873	45.8612	2.701	1530.7	4130.	0.4658E 02	0.336
4400.	2.471	34.902	68.78	5.62	2.0768	27.8874	45.8655	2.795	1534.1	4324.	0.4751E 02	0.269
4500.	2.467	34.902	68.78	5.65	2.0610	27.8880	45.8678	2.843	1535.8	4422.	0.4796E 02	0.281
4600.	2.462	34.899	68.79	5.64	2.0435	27.8876	45.8693	2.891	1537.5	4519.	0.4848E 02	0.234
4700.	2.454	34.898	68.79	5.64	2.0239	27.8879	45.8718	2.940	1539.2	4616.	0.4890E 02	0.300
4800.	2.454	34.896	68.81	5.66	2.0112	27.8875	45.8728	2.989	1541.0	4713.	0.4946E 02	0.200
4900.	2.456	34.895	68.75	5.65	2.0007	27.8872	45.8736	3.039	1542.7	4810.	0.5005E 02	0.181
5000.	2.461	34.894	68.79	5.66	1.9925	27.8877	45.8750	3.089	1544.5	4907.	0.5059E 02	0.222
5100.	2.466	34.893	68.72	5.66	1.9851	27.8874	45.8756	3.140	1546.2	5004.	0.5120E 02	0.158
5200.	2.476	34.893	68.73	5.66	1.9815	27.8874	45.8759	3.192	1548.0	5101.	0.5184E 02	0.116
5300.	2.485	34.892	68.71	5.66	1.9776	27.8874	45.8763	3.244	1549.8	5198.	0.5248E 02	0.133
5400.	2.491	34.893	68.64	5.67	1.9703	27.8882	45.8780	3.297	1551.6	5295.	0.5301E 02	0.242

C.DARWIN 1/85 STATION 016

P-DB	T-DEGC	SAL-PSU	POTRAN	DO-ML/L	POTEMP	SIGMA0	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-C/HR
10.	17.886	36.615	63.30	5.19	17.8846	26.5397	43.1660	0.015	1517.4	10.	0.1488E 03	-9.990
20.	17.913	36.628	64.00	5.20	17.9095	26.5431	43.1676	0.030	1517.7	20.	0.1489E 03	1.034
30.	17.898	36.626	63.52	5.24	17.8933	26.5455	43.1710	0.045	1517.8	30.	0.1490E 03	0.871
50.	17.895	36.626	63.18	5.15	17.8866	26.5471	43.1730	0.075	1518.2	50.	0.1497E 03	0.498
75.	17.895	36.625	63.23	5.11	17.8818	26.5481	43.1744	0.112	1518.6	74.	0.1505E 03	0.367
100.	17.908	36.625	64.41	5.24	17.8903	26.5457	43.1715	0.150	1519.0	99.	0.1517E 03	-0.550
125.	17.868	36.613	64.54	5.31	17.8462	26.5477	43.1765	0.188	1519.3	124.	0.1525E 03	0.513
150.	17.778	36.597	64.86	5.23	17.7521	26.5584	43.1935	0.226	1519.4	149.	0.1524E 03	1.176
200.	16.725	36.383	67.33	4.91	16.6920	26.6507	43.3591	0.300	1516.9	198.	0.1452E 03	2.459
250.	15.706	36.159	67.63	4.97	15.6669	26.7169	43.4989	0.371	1514.4	248.	0.1403E 03	2.111
300.	14.827	36.001	67.75	4.98	14.7816	26.7928	43.6396	0.439	1512.3	298.	0.1343E 03	2.258
400.	13.486	35.813	67.94	4.82	13.4283	26.9360	43.8840	0.568	1509.4	397.	0.1230E 03	2.195
500.	12.273	35.647	68.05	4.96	12.2054	27.0529	44.0962	0.686	1506.8	496.	0.1138E 03	2.013
600.	11.321	35.549	68.23	4.80	11.2440	27.1590	44.2790	0.796	1505.1	595.	0.1055E 03	1.924
700.	10.541	35.502	68.33	4.49	10.4540	27.2655	44.4494	0.898	1503.9	694.	0.9696E 02	1.926
800.	9.937	35.500	68.41	4.40	9.8410	27.3703	44.6040	0.990	1503.4	793.	0.8856E 02	1.903
900.	9.394	35.511	68.45	4.40	9.2895	27.4718	44.7509	1.074	1503.1	892.	0.8034E 02	1.878
1000.	8.850	35.533	68.46	4.33	8.7370	27.5783	44.9033	1.149	1502.8	991.	0.7143E 02	1.930
1200.	8.191	35.582	68.50	4.53	8.0593	27.7224	45.1042	1.281	1503.7	1188.	0.6049E 02	1.592
1400.	7.229	35.505	68.56	5.03	7.0830	27.8056	45.2758	1.394	1503.3	1385.	0.5365E 02	1.337
1600.	5.949	35.334	68.59	5.46	5.7953	27.8434	45.4367	1.496	1501.4	1583.	0.4890E 02	1.164
1800.	5.154	35.224	68.62	5.61	4.9894	27.8542	45.5274	1.592	1501.4	1780.	0.4739E 02	0.853
2000.	4.451	35.128	68.64	5.80	4.2768	27.8584	45.6041	1.685	1501.8	1976.	0.4611E 02	0.792
2200.	3.900	35.056	68.69	5.76	3.7136	27.8606	45.6645	1.777	1502.8	2173.	0.4510E 02	0.730
2400.	3.534	35.021	68.68	5.69	3.3345	27.8703	45.7137	1.866	1504.6	2370.	0.4394E 02	0.723
2600.	3.220	34.985	68.66	5.66	3.0061	27.8726	45.7508	1.953	1506.6	2566.	0.4342E 02	0.622
2800.	3.025	34.966	68.64	5.63	2.7944	27.8770	45.7777	2.039	1509.1	2762.	0.4320E 02	0.562
3000.	2.847	34.949	68.63	5.66	2.5999	27.8804	45.8018	2.126	1511.7	2958.	0.4302E 02	0.543
3200.	2.742	34.938	68.64	5.66	2.4758	27.8829	45.8177	2.212	1514.7	3154.	0.4329E 02	0.454
3400.	2.660	34.930	68.65	5.62	2.3745	27.8846	45.8303	2.299	1517.7	3349.	0.4374E 02	0.413
3600.	2.587	34.921	68.65	5.60	2.2812	27.8853	45.8412	2.387	1520.8	3544.	0.4426E 02	0.391
3800.	2.537	34.914	68.66	5.58	2.2106	27.8860	45.8495	2.476	1524.1	3740.	0.4492E 02	0.350
4000.	2.491	34.908	68.67	5.58	2.1431	27.8863	45.8571	2.566	1527.3	3935.	0.4560E 02	0.345
4200.	2.475	34.905	68.71	5.60	2.1038	27.8874	45.8625	2.658	1530.7	4130.	0.4645E 02	0.295
4400.	2.457	34.902	68.74	5.61	2.0628	27.8878	45.8674	2.752	1534.0	4324.	0.4733E 02	0.285
4500.	2.448	34.900	68.74	5.65	2.0427	27.8878	45.8696	2.800	1535.7	4422.	0.4777E 02	0.278
4600.	2.442	34.898	68.74	5.65	2.0241	27.8878	45.8716	2.848	1537.4	4519.	0.4824E 02	0.266
4700.	2.438	34.896	68.75	5.66	2.0083	27.8876	45.8732	2.896	1539.2	4616.	0.4875E 02	0.242
4800.	2.441	34.895	68.77	5.66	1.9987	27.8876	45.8742	2.945	1540.9	4713.	0.4931E 02	0.195
4900.	2.444	34.894	68.77	5.69	1.9888	27.8879	45.8756	2.995	1542.7	4810.	0.4985E 02	0.222
5000.	2.447	34.893	68.75	5.67	1.9797	27.8879	45.8766	3.045	1544.4	4907.	0.5041E 02	0.199
5100.	2.454	34.893	68.72	5.65	1.9738	27.8881	45.8774	3.096	1546.2	5004.	0.5100E 02	0.174
5200.	2.463	34.892	68.67	5.67	1.9687	27.8880	45.8779	3.147	1548.0	5101.	0.5163E 02	0.146
5300.	2.475	34.892	68.65	5.69	1.9676	27.8879	45.8779	3.199	1549.7	5198.	0.5231E 02	0.045
5400.	2.485	34.892	68.70	5.68	1.9641	27.8884	45.8788	3.252	1551.5	5295.	0.5291E 02	0.170
5500.	2.496	34.892	68.59	5.65	1.9620	27.8881	45.8787	3.305	1553.3	5392.	0.5360E 02	0.036

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C.DARWIN 1/85 STATION 017

P-DB	T-DEGC	SAL-PSU	POTRAN	DO-ML/L	POTEMP	SIGMA0	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-C/HR
10.	17.517	36.601	64.64	5.35	17.5151	26.6195	43.2695	0.014	1516.3	10.	0.1412E 03	-9.990
20.	17.519	36.601	64.67	5.38	17.5156	26.6199	43.2699	0.028	1516.5	20.	0.1416E 03	0.368
30.	17.537	36.607	64.62	5.42	17.5320	26.6200	43.2688	0.042	1516.7	30.	0.1420E 03	0.098
50.	17.535	36.605	64.70	5.41	17.5267	26.6203	43.2695	0.071	1517.1	50.	0.1427E 03	0.234
75.	17.543	36.607	64.69	5.40	17.5305	26.6204	43.2693	0.107	1517.5	74.	0.1436E 03	0.076
100.	17.533	36.602	64.76	5.44	17.5161	26.6200	43.2699	0.143	1517.9	99.	0.1446E 03	-0.211
125.	17.532	36.600	64.72	5.42	17.5103	26.6203	43.2706	0.179	1518.3	124.	0.1455E 03	0.199
150.	17.527	36.597	64.77	5.41	17.5015	26.6204	43.2713	0.215	1518.7	149.	0.1465E 03	0.117
200.	16.337	36.321	66.67	5.12	16.3041	26.6943	43.4297	0.288	1515.7	199.	0.1409E 03	2.218
250.	15.472	36.157	67.10	5.03	15.4328	26.7682	43.5662	0.358	1513.6	248.	0.1353E 03	2.215
300.	14.240	35.921	67.44	5.00	14.1954	26.8584	43.7484	0.424	1510.3	298.	0.1278E 03	2.474
400.	12.974	35.744	67.69	4.90	12.9185	26.9867	43.9739	0.546	1507.6	397.	0.1179E 03	2.083
500.	11.954	35.617	67.90	4.84	11.8878	27.0905	44.1588	0.660	1505.7	496.	0.1100E 03	1.893
600.	11.101	35.539	68.00	4.64	11.0245	27.1913	44.3288	0.766	1504.3	595.	0.1022E 03	1.871
700.	10.532	35.538	68.05	4.25	10.4453	27.2950	44.4786	0.864	1503.9	694.	0.9418E 02	1.877
800.	9.763	35.528	68.16	3.96	9.6686	27.4218	44.6689	0.953	1502.8	793.	0.8345E 02	2.098
900.	9.245	35.539	68.23	4.04	9.1408	27.5177	44.8084	1.032	1502.6	892.	0.7577E 02	1.827
1000.	8.663	35.527	68.25	4.14	8.5511	27.6028	44.9438	1.105	1502.1	991.	0.6874E 02	1.756
1200.	8.116	35.582	68.33	4.52	7.9849	27.7334	45.1216	1.232	1503.4	1188.	0.5927E 02	1.509
1400.	6.695	35.414	68.35	5.15	6.5553	27.8068	45.3275	1.343	1501.1	1386.	0.5182E 02	1.367
1600.	5.517	35.266	68.42	5.61	5.3688	27.8423	45.4779	1.442	1499.6	1583.	0.4736E 02	1.126
1800.	4.872	35.184	68.44	5.74	4.7112	27.8548	45.5562	1.537	1500.2	1780.	0.4611E 02	0.810
2000.	4.337	35.116	68.47	5.76	4.1645	27.8614	45.6185	1.628	1501.3	1977.	0.4528E 02	0.732
2200.	3.729	35.037	68.53	5.81	3.5455	27.8624	45.6839	1.717	1502.0	2173.	0.4401E 02	0.752
2400.	3.332	34.993	68.54	5.82	3.1359	27.8667	45.7313	1.804	1503.7	2370.	0.4307E 02	0.686
2600.	3.113	34.973	68.53	5.77	2.9010	27.8730	45.7624	1.889	1506.1	2566.	0.4269E 02	0.592
2800.	2.924	34.956	68.52	5.73	2.6957	27.8778	45.7891	1.974	1508.7	2762.	0.4243E 02	0.561
3000.	2.784	34.944	68.57	5.69	2.5379	27.8822	45.8103	2.059	1511.5	2958.	0.4238E 02	0.515
3200.	2.692	34.935	68.60	5.69	2.4269	27.8840	45.8240	2.144	1514.5	3154.	0.4280E 02	0.421
3400.	2.609	34.925	68.62	5.64	2.3246	27.8852	45.8363	2.230	1517.5	3349.	0.4325E 02	0.406
3600.	2.555	34.918	68.65	5.61	2.2504	27.8859	45.8450	2.317	1520.7	3545.	0.4393E 02	0.350
3800.	2.506	34.912	68.66	5.58	2.1806	27.8865	45.8532	2.406	1523.9	3740.	0.4459E 02	0.349
4000.	2.473	34.906	68.69	5.62	2.1255	27.8867	45.8594	2.496	1527.2	3935.	0.4539E 02	0.309
4200.	2.442	34.901	68.71	5.61	2.0719	27.8867	45.8653	2.587	1530.5	4130.	0.4618E 02	0.307
4400.	2.425	34.898	68.73	5.61	2.0324	27.8878	45.8707	2.681	1533.9	4325.	0.4699E 02	0.301
4500.	2.420	34.897	68.74	5.64	2.0154	27.8878	45.8726	2.728	1535.6	4422.	0.4747E 02	0.255
4600.	2.420	34.895	68.71	5.65	2.0031	27.8875	45.8736	2.776	1537.3	4519.	0.4803E 02	0.194
4700.	2.422	34.894	68.73	5.64	1.9927	27.8877	45.8750	2.824	1539.1	4617.	0.4856E 02	0.221
4800.	2.427	34.893	68.72	5.62	1.9852	27.8876	45.8757	2.873	1540.8	4714.	0.4916E 02	0.160
4900.	2.434	34.893	68.70	5.64	1.9790	27.8876	45.8764	2.922	1542.6	4811.	0.4975E 02	0.163
5000.	2.442	34.892	68.68	5.67	1.9742	27.8875	45.8768	2.972	1544.4	4908.	0.5038E 02	0.129
5100.	2.450	34.892	68.67	5.66	1.9694	27.8874	45.8772	3.023	1546.2	5005.	0.5101E 02	0.132
5200.	2.460	34.891	68.64	5.67	1.9663	27.8872	45.8774	3.074	1547.9	5102.	0.5167E 02	0.096

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C.DARWIN 1/85 STATION 018

P-DB	T-DEGC	SAL-PSU	POTRAN	DO-ML/L	POTEMP	SIGMA0	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-C/HR
10.	17.904	36.655	62.92	5.34	17.9023	26.5661	43.1903	0.015	1517.5	10.	0.1463E 03	-9.990
20.	17.905	36.655	62.89	5.29	17.9019	26.5659	43.1902	0.029	1517.7	20.	0.1467E 03	-0.220
30.	17.900	36.655	62.87	5.38	17.8945	26.5673	43.1920	0.044	1517.9	30.	0.1470E 03	0.651
50.	17.871	36.653	63.58	5.36	17.8627	26.5743	43.2010	0.073	1518.1	50.	0.1471E 03	1.052
75.	17.865	36.653	64.04	5.35	17.8522	26.5764	43.2038	0.110	1518.5	74.	0.1478E 03	0.518
100.	17.860	36.652	64.31	5.33	17.8423	26.5781	43.2062	0.147	1518.9	99.	0.1486E 03	0.474
125.	17.861	36.651	64.49	5.31	17.8397	26.5783	43.2066	0.185	1519.3	124.	0.1496E 03	0.159
150.	17.867	36.651	64.54	5.38	17.8408	26.5781	43.2063	0.222	1519.8	149.	0.1505E 03	-0.159
200.	16.294	36.295	67.36	4.93	16.2617	26.6846	43.4234	0.295	1515.5	199.	0.1418E 03	2.656
250.	15.447	36.129	67.39	5.00	15.4079	26.7524	43.5528	0.365	1513.5	248.	0.1368E 03	2.125
300.	14.732	36.010	67.60	5.02	14.6871	26.8203	43.6735	0.432	1512.0	298.	0.1317E 03	2.129
400.	13.404	35.823	67.81	4.81	13.3466	26.9606	43.9143	0.559	1509.1	397.	0.1207E 03	2.174
500.	11.974	35.635	67.90	4.71	11.9075	27.1011	44.1673	0.673	1505.7	496.	0.1090E 03	2.205
600.	11.014	35.533	68.17	4.66	10.9377	27.2024	44.3469	0.777	1504.0	595.	0.1010E 03	1.886
700.	10.454	35.514	68.26	4.36	10.3681	27.2900	44.4805	0.875	1503.6	694.	0.9453E 02	1.737
800.	9.895	35.521	68.39	4.27	9.7996	27.3940	44.6306	0.966	1503.3	793.	0.8627E 02	1.890
900.	9.477	35.571	68.39	4.13	9.3715	27.5050	44.7755	1.048	1503.5	892.	0.7741E 02	1.935
1000.	9.097	35.604	68.40	4.21	8.9819	27.5950	44.8972	1.122	1503.8	991.	0.7043E 02	1.759
1200.	8.423	35.629	68.45	4.49	8.2889	27.7244	45.0850	1.253	1504.7	1188.	0.6093E 02	1.520
1400.	7.420	35.540	68.53	4.92	7.2721	27.8057	45.2580	1.368	1504.1	1386.	0.5426E 02	1.332
1600.	6.159	35.364	68.55	5.35	6.0032	27.8404	45.4134	1.472	1502.3	1583.	0.4997E 02	1.137
1800.	5.318	35.254	68.61	5.49	5.1518	27.8589	45.5156	1.569	1502.1	1780.	0.4766E 02	0.935
2000.	4.508	35.140	68.64	5.63	4.3320	27.8622	45.6020	1.662	1502.0	1977.	0.4604E 02	0.834
2200.	3.976	35.071	68.67	5.68	3.7885	27.8652	45.6611	1.754	1503.1	2173.	0.4509E 02	0.726
2400.	3.505	35.015	68.70	5.72	3.3060	27.8684	45.7149	1.843	1504.4	2370.	0.4394E 02	0.723
2600.	3.227	34.988	68.63	5.66	3.0122	27.8745	45.7520	1.930	1506.6	2566.	0.4328E 02	0.640
2800.	3.038	34.970	68.65	5.63	2.8067	27.8791	45.7784	2.016	1509.2	2762.	0.4310E 02	0.556
3000.	2.868	34.953	68.66	5.65	2.6199	27.8818	45.8011	2.102	1511.8	2958.	0.4304E 02	0.525
3200.	2.730	34.939	68.66	5.70	2.4641	27.8843	45.8203	2.188	1514.6	3154.	0.4308E 02	0.497
3400.	2.635	34.928	68.67	5.62	2.3504	27.8854	45.8337	2.275	1517.6	3349.	0.4346E 02	0.423
3600.	2.584	34.921	68.69	5.58	2.2789	27.8861	45.8421	2.362	1520.8	3545.	0.4417E 02	0.344
3800.	2.521	34.913	68.71	5.62	2.1947	27.8864	45.8516	2.451	1524.0	3740.	0.4474E 02	0.373
4000.	2.488	34.907	68.72	5.60	2.1403	27.8862	45.8574	2.542	1527.3	3935.	0.4558E 02	0.299
4200.	2.449	34.902	68.75	5.66	2.0785	27.8866	45.8645	2.633	1530.6	4130.	0.4626E 02	0.340
4400.	2.434	34.899	68.76	5.63	2.0408	27.8875	45.8695	2.727	1533.9	4325.	0.4711E 02	0.288
4500.	2.427	34.897	68.75	5.66	2.0223	27.8873	45.8713	2.774	1535.6	4422.	0.4760E 02	0.255
4600.	2.424	34.895	68.75	5.63	2.0068	27.8872	45.8730	2.822	1537.4	4519.	0.4809E 02	0.242
4700.	2.427	34.894	68.72	5.69	1.9973	27.8874	45.8742	2.870	1539.1	4616.	0.4864E 02	0.211
4800.	2.434	34.894	68.72	5.67	1.9923	27.8872	45.8745	2.919	1540.9	4713.	0.4927E 02	0.114
4900.	2.441	34.893	68.63	5.65	1.9859	27.8872	45.8753	2.969	1542.6	4811.	0.4987E 02	0.165
5000.	2.450	34.893	68.51	5.67	1.9820	27.8871	45.8756	3.019	1544.4	4908.	0.5051E 02	0.111
5100.	2.462	34.892	68.47	5.63	1.9807	27.8871	45.8757	3.070	1546.2	5005.	0.5117E 02	0.080

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C.DARWIN 1/85 STATION 019

P-DB	T-DEGC	SAL-PSU	POTRAN	DO-ML/L	POTEMP	SIGMA0	SIG4000	DYNHT-M	SNDV-M/S	DEPTH-M	SVANOM	BVFR-C/HR
10.	17.505	36.593	63.73	5.31	17.5038	26.6165	43.2674	0.014	1516.3	10.	0.1415E 03	-9.990
20.	17.504	36.592	63.64	5.35	17.5005	26.6161	43.2673	0.028	1516.5	20.	0.1419E 03	-0.319
30.	17.506	36.591	63.76	5.36	17.5011	26.6158	43.2669	0.043	1516.6	30.	0.1424E 03	-0.311
50.	17.506	36.591	63.63	5.37	17.4980	26.6163	43.2676	0.071	1517.0	50.	0.1431E 03	0.276
75.	17.517	36.594	64.02	5.36	17.5045	26.6172	43.2681	0.107	1517.4	74.	0.1439E 03	0.344
100.	17.537	36.599	64.66	5.33	17.5196	26.6173	43.2670	0.143	1517.9	99.	0.1449E 03	-0.044
125.	17.546	36.602	64.79	5.22	17.5251	26.6182	43.2675	0.179	1518.3	124.	0.1457E 03	0.334
150.	17.549	36.602	64.88	5.37	17.5231	26.6187	43.2681	0.216	1518.8	149.	0.1466E 03	0.255
200.	17.370	36.550	65.56	5.17	17.3360	26.6241	43.2868	0.290	1519.0	199.	0.1479E 03	0.619
250.	15.351	36.101	67.11	5.02	15.3121	26.7522	43.5599	0.360	1513.2	248.	0.1368E 03	2.940
300.	14.600	35.968	67.33	5.02	14.5549	26.8173	43.6808	0.427	1511.5	298.	0.1319E 03	2.090
400.	13.343	35.795	67.70	4.90	13.2859	26.9516	43.9105	0.554	1508.9	397.	0.1215E 03	2.127
500.	12.299	35.663	67.82	4.80	12.2313	27.0601	44.1009	0.671	1506.9	496.	0.1132E 03	1.932
600.	11.356	35.560	68.03	4.71	11.2788	27.1613	44.2782	0.780	1505.2	595.	0.1053E 03	1.883
700.	10.623	35.515	68.16	4.46	10.5362	27.2608	44.4377	0.882	1504.2	694.	0.9752E 02	1.862
800.	9.942	35.525	68.27	4.32	9.8464	27.3891	44.6217	0.974	1503.5	793.	0.8681E 02	2.098
900.	9.387	35.549	68.30	4.12	9.2824	27.5025	44.7811	1.055	1503.1	892.	0.7747E 02	1.977
1000.	8.756	35.519	68.31	4.23	8.6438	27.5823	44.9156	1.129	1502.4	991.	0.7086E 02	1.718
1200.	8.289	35.609	68.40	4.49	8.1562	27.7291	45.1017	1.260	1504.1	1188.	0.6013E 02	1.581
1400.	7.158	35.494	68.44	4.98	7.0125	27.8064	45.2833	1.373	1503.0	1386.	0.5335E 02	1.334
1600.	6.053	35.359	68.49	5.32	5.8982	27.8502	45.4332	1.473	1501.9	1583.	0.4866E 02	1.160
1800.	5.000	35.211	68.51	5.65	4.8376	27.8618	45.5501	1.568	1500.8	1780.	0.4602E 02	0.957
2000.	4.329	35.117	68.55	5.76	4.1558	27.8628	45.6208	1.660	1501.3	1977.	0.4511E 02	0.746
2200.	3.835	35.059	68.58	5.71	3.6504	27.8690	45.6792	1.749	1502.5	2173.	0.4399E 02	0.738
2400.	3.455	35.014	68.61	5.68	3.2561	27.8719	45.7235	1.836	1504.2	2370.	0.4333E 02	0.657
2600.	3.134	34.979	68.62	5.65	2.9218	27.8757	45.7628	1.922	1506.2	2566.	0.4258E 02	0.647
2800.	2.948	34.960	68.61	5.63	2.7191	27.8792	45.7879	2.007	1508.8	2762.	0.4247E 02	0.540
3000.	2.800	34.946	68.63	5.68	2.5535	27.8824	45.8088	2.092	1511.5	2958.	0.4248E 02	0.506
3200.	2.698	34.936	68.64	5.63	2.4332	27.8845	45.8238	2.177	1514.5	3154.	0.4281E 02	0.440
3400.	2.615	34.926	68.67	5.60	2.3309	27.8856	45.8360	2.263	1517.6	3349.	0.4327E 02	0.405
3600.	2.557	34.918	68.69	5.57	2.2519	27.8852	45.8443	2.351	1520.7	3545.	0.4400E 02	0.337
3800.	2.507	34.912	68.71	5.57	2.1814	27.8863	45.8529	2.439	1523.9	3740.	0.4462E 02	0.358
4000.	2.473	34.907	68.69	5.57	2.1253	27.8869	45.8597	2.529	1527.2	3935.	0.4537E 02	0.323
4200.	2.447	34.902	68.75	5.61	2.0772	27.8869	45.8650	2.621	1530.6	4130.	0.4621E 02	0.292
4400.	2.427	34.898	68.73	5.63	2.0335	27.8873	45.8701	2.714	1533.9	4325.	0.4705E 02	0.294
4500.	2.421	34.896	68.73	5.62	2.0158	27.8872	45.8720	2.761	1535.6	4422.	0.4753E 02	0.255
4600.	2.419	34.895	68.71	5.64	2.0021	27.8874	45.8736	2.809	1537.3	4519.	0.4803E 02	0.242
4700.	2.419	34.896	68.58	5.64	1.9898	27.8890	45.8765	2.857	1539.1	4616.	0.4842E 02	0.314

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